CONSTRUCTION NEWS

UPS AND DOWNS OF THE MARKET

PIG IRON—The car shortage which for far too long has seriously handicapped all branches of industry is felt severely in the iron and steel market. Pig Iron prices remain about the same as last month.

RAILWAY MATERIALS—Rail prices remain the same as last month. Sharp drop in railway ties in San Francisco, due probably to flooding of market with lumber for which there are no cars for shipment eastward. Slight rise noted for standard spikes.

CONCRETING MATERIALS—Very few changes for sand, gravel or crushed stone. Slag prices same as last month. Decreases in prices of high-graded lime in Detroit and Baltimore and a $3.50 per ton increase in San Francisco. Cement price increased in Detroit, New Orleans and San Francisco. In St. Louis nearly all construction work is shut down on account of shortage of cement, local cement mills being under bond to deliver to the Illinois Highway Commission. Cement shortage has contributed to a general tying up of heavy building operations in the Duluth district and in the towns of the Minnesota iron ranges.

The president of a large Duluth company handling cement and other building materials stated that about one barrel of cement is being manufactured for every four barrels required, and that his company is 60 days behind on deliveries.

REINFORCING MATERIALS—Practically no change in prices of steel reinforcing, with acute shortages of all materials.

PIPE—A range is quoted for discounts on iron and steel pipe in Pittsburgh. Steel pipe has advanced seven points at warehouses in New York. Cast iron pipe up $4 in San Francisco. Clay drain tile advanced $7 per thousand lineal feet for 3-in. and $45 for 8-in. in New York. Sewer Pipe advanced in San Francisco and declined in Detroit and Baltimore.

BRICK—Common brick advanced in Chicago and San Francisco. This month for the first time quotations are given on both 3-in. and 4-in. paving blocks. Paving Brick will not be quoted on, as its use is restricted practically to repair work. The only block in the Chicago market is 3-in. by 4-in. by 8½-in. In San Francisco the only size is 3¼ by 8¼ by 4 in., with very little laid, except on hills where increased traction is desired, asphalt being used almost exclusively for road work.

STRUCTURAL MATERIAL—The Pittsburgh market is quiet with few contracts being taken. Some of the mills are casting up their orders. The Carnegie Steel Company still quotes $2.45 per hundred for beams and channels up to 15-inch while other fabricators quote as high as $3.75. Therefore we quote a range of $2.45 to $3.75. Price is $5.85 in San Francisco, an advance of 45c over the last prices quoted in this journal. Structural rivets ¾ inch and larger are $4.72 per hundred pounds. Prices advanced 25c in Chicago and in St. Louis.

STEEL SHEETS—The market remains about the same as last month with heavy demand and few deliveries. Manufacturers of steel boxes for the electrical trade are seriously affected by the shortage.

HOLLOW TILE—Conditions in New York district still unsatisfactory, with factories behind on orders. Increases in San Francisco and New Orleans.

STRUCTURAL MATERIALS—The Pittsburgh market is quiet, with plain steel easier. Several of the mills report that they are catching up on orders. The Carnegie Steel Co. still quotes $2.45 for beams and channels up to 15-in. Another fabricator quotes $2.90@$3.25, the highest being $3.75; so that our figures are $2.45@$3.75. For plates the heaviest demands are from shipbuilding interests and steel car manufacturers.

LUMBER—Douglas fir is down $5 in San Francisco—a drop of $8.50 in two months. The reason for this is that when the switchmen's strike started the mills were unable to secure cars for shipping their output to the Middle West and the East. If the mills were not to be shut down a market had to be found at once; so the Coast was flooded with lumber at a reduced price. Pine dropped in price in New York, St. Louis, Kansas City, Cincinnati and Detroit.

LABOR—On the whole, labor conditions appear to be improved over last month. There were wage increases in Cincinnati, Detroit and New Orleans.

Price advances are indicated by **heavy type**; declines by *italics*

PIG IRON—Quotations compiled by The Matthew Addy Co.:

	Current	One Year Ago
CINCINNATI		
No. 2 Southern	$45.60	$30.35
Northern Basic	42.80	27.55
Southern Ohio No. 2	46.80	28.55
NEW YORK, tidewater delivery		
2X Virginia (silicon 2.25 to 2.75)	49.65	31.90
Southern No. 2 (silicon 2.25 to 2.75)	49.70	33.95
BIRMINGHAM		
No. 2 Foundry	42.00@44.00	26.25
PHILADELPHIA		
Eastern Pa	**46.00@48.25***	30.65*
Virginia No. 2	45.00*	30.85*
Basic	44.50†	30.90†
Grey Forge	43.50*	29.90*
CHICAGO		
No. 2 Foundry Local	43.00@44.25	26.75
No. 2 Foundry Southern	47.00@48.70	28.00
PITTSBURGH, including freight charge from the Valley		
No. 2 Foundry Valley	45.65	28.15
Basic	44.40	27.15
Bessemer	44.90	29.35
MONTREAL		
Silicon 2.25 to 2.75%	43.25	

* F. o. b. furnace. † Delivered.

RAILWAY SUPPLIES

STEEL RAILS—The following quotations are per ton f. o. b. Pittsburgh and Chicago for carload or larger lots. For less than carload lots 5c. per 100 lb. is charged extra:

	Pittsburgh		Chicago	
	Current	One Year Ago	Current	One Year Ago
Standard bessemer rails	$45.00 @ $60.00	$45.00	$45.00@$55.00	$45.00
Standard openhearth rails	47.00 @ 60.00	47.00	47.00@ 57.00	47.00
Light rails, 8 to 10 lb.	50.00 @ 55.00	2.585*	2.585*@3.75	2.835*
Light rails, 12 to 14 lb.	49.00 @ 75.00	2.54*	2.54* @3.75	2.79*
Light rails, 25 to 45 lb.	49.00 @ 75.00	2.45*	2.45* @3.75	2.70*

* Per 100 lb.

Note.—The lower price is that of the U. S. Steel Corp. but the market is mostly speculative and higher prices prevail.

RAILWAY TIES—For fair-sized orders, the following prices per tie hold:

		7 In. x 9 In. by 8 Ft. 6 In.	6 In. x 8 In. by 8½ Ft.
Chicago	Plain	**$2.00**	**$2.25**
Chicago	Creosoted	**2.25**	**2.50**
San Francisco	Douglas Fir—Green	*1.35*	*.96*
San Francisco	Douglas Fir—Creosoted	*2.70*	*1.92*

Prices per tie at Missouri mills; St. Louis prices about 25c. higher:

Untreated A Grade White Oak 6x8x8		Untreated A Grade Red Oak 6x8x8	
No. 1	$0.70	No. 1	$0.55
No. 2	.80	No. 2	.65
No. 3	.90	No. 3	.75
No. 4	.98		
7x9x8 white oak			1.05
7x9x8 red oak (No. 4)	$0.80	No. 5	.87

Note.—Add 36c. each for treatment.

TRACK SUPPLIES—The following prices are base per 100 lb. f.o.b. Pittsburgh for carload lots, together with the warehouse prices at the places named:

	— Pittsburgh — Current	One Year Ago	Chicago	St. Louis	San Francisco
Standard spikes, ⅜-in. and larger	$4.@4.25	$3.35	$3.62	$5.34	$7.75
Track bolts	6.00@6.50	4.35	4.62	Premium	8.75
Standard section angle bars	3.00@4.00	3.00	3.02	Premium	5.30

PIPE

STEEL AND IRON—The following discounts are to jobbers for carload lots on the Pittsburgh basing card, discounts on steel pipe, applying as from January 14, 1920, and on iron pipe from January 7, 1920:

BUTT WELD

Inches	Black	Galv.	Inches	Black	Galv.
⅜ to 3	57 @54	44@41½	¼ to 1½	34½@24½	18½@ 8
			2 and 2½	33½	17½

LAP WELD

2	50½@47	38@34½	2	28½@20½	14½@ 6½
2½ to 6	53½@50	41@37½	2½ to 6	30½@22½	17½@ 9½
7 to 12	50½@47	37@33½	7 to 12	27½@19½	14½@ 6½
13 and 14	41 @37½				
15	38 @35				

BUTT-WELD, EXTRA STRONG, PLAIN ENDS

⅜ to 1½	55½@52	39½	¼ to 1½	34½@24½	19½@ 9½
2 to 3	56½@53	44@40½	2 and 2½	34½@24½	19½@ 9½

LAP WELD, EXTRA STRONG, PLAIN ENDS

2	48½@45	37@33½	2	29½@21½	16½@ 8½
2½ to 4	51½@48	40@36½	2½ to 4	31½@23½	19½@11½
4½ to 6	50½@47	39@35½	4½ to 6	30½@22½	18½@10½
7 to 8	46½@43	33@29½	7 to 8	22½@14½	10½@ 2½
9 to 12	41½@38	28@24½	9 to 12	17½@ 9½	5½@ 5½

STEEL—From warehouses at the places named the following discounts hold for steel pipe:

	Black — New York	Chicago	St. Louis
¼ to 3 in. butt welded	40%	54@40%	45%
2½ to 6 in. lap welded	35%	50@40%	41½%
	Galvanized — New York	Chicago	St. Louis
¼ to 3 in. butt welded	24%	40½@30%	30½%
2½ to 6 in. lap welded	20%	37½%@27½	27½%

Malleable fittings, Class B and C, from New York stock sell at + 32% list prices. Cast iron, standard sizes, net.

CAST-IRON PIPE—The following are prices per net ton for carload lots:

	— New York — Current	One Month Ago	One Year Ago	Chicago	St. Louis	San Francisco
4 in.	$79.30	$75.30	$53.00	$78.80	$78.00	$97.55
6 in. and over	76.30	72.30	50.00	75.80	75.00	94.55

Gas pipe and 16-ft. lengths are $2 per ton extra.

CLAY DRAIN TILE—The following prices are per 1000 lin.ft.:

Size, In.	— New York — Current	One Year Ago	St. Louis	Chicago	San Francisco	Dallas
3	$42.50	$35.00	$60.00	$60.00		$33.44
4	60.00	51.00	60.00	80.00	$45.00	50.16
5	85.00	65.00		100.00	65.00	62.70
6	110.00	90.00	110.00	120.00	90.00	83.60
8	175.00	130.00	195.00	180.00	150.00	133.76

SEWER PIPE—The following prices are in cents per foot for carload lots

Size, In.	— New York — Current Delivered	Year Ago Not Del.	St. Louis	Chicago	San Francisco	Dallas
4	$0.19	$0.081		$0.15	$12.75	$0.175
4	19	081		15	17.00	175
5	29	1215		225	21.25	245
6	29	1215	$0.1855	225	24.50	245
8	45	189	265	35	38.25	35
10	67	283	371	525	51	
12	86	365	477	625	68	63
15	1.30	480	715	90	1.10	
18	1.88	675	935	1.25	1.425	
20	2.25	81	1.15	1.50	1.90	
22	3.00	1.08		2.00		
24	8.38	1.215	1.65	2.25	2.375	3.10
27		2.015	2.45	3.50	2.975	
30		2.232	2.95	4.00	3.40	
33		2.79	3.70	4.75		
36		3.18	4.00	5.50		5.60
	3	5	8	12	24	36
Boston	$0.21	$0.315	$0.49	$0.94½	$3.15	$8.20
Minneapolis	125	167	295	495	1.87	4.37
Denver			29	50	1.75	
Seattle			3850	68		2.375
Kansas City		No prices obtainable				
Los Angeles	0975*	1525*	27	48	60*	
New Orleans	30 per cent. off			35 per cent off		
Cincinnati	53 per cent off					38%
Atlanta			34	55	2.00	
Montreal			58 per cent. off			
Detroit			57 per cent. off		46%	42%
Baltimore	.18	.27	.42	.81	2.70	6.75

* 4-in., 6-in., 30-in. respectively.

ROAD AND PAVING MATERIALS

ROAD OILS—Following are prices per gallon in tank cars 8000 gal. minimum f.o.b. place named:

	Current	One Month Ago
New York, 45–65% asphalt (at terminal)	$0.13*	$0.13
New York, liquid asphalt (" ")	13*	.13
New York, binder (" ")	.14*	13½
New York, flux (" ")	15*	.14
St. Louis, 40% asphalt	10*	.10
Chicago, 40-50% asphalt	.08	08
Chicago, 60-70% asphalt	.08½	085
Dallas, 40-50% asphalt	.07	07
Dallas, 60-70% asphalt	.08	.08
Dallas, 75-90% asphalt	10	.10
San Francisco, binder, per ton	13.00	

*Note—Quotations nominal in New York. Scarcity in road oils.

ASPHALTUM—Price per ton in packages (350-lb. bbls. or 425-lb. drums), and in bulk in carload lots:

	Package	Bulk
New York	$46.00	$40.00
Chicago	30.90	23.40
San Francisco	19.00	14.00
Dallas	35.00	31.00
Seattle	25.00	
Denver	40.00	36.00
Minneapolis	24.00	21.00
Kansas City	40.00	32.00
Atlanta	25.00	20.80
New Orleans	30.00	35.00
St. Louis	29.40	23.90
Baltimore	43.00	
Los Angeles	21.15	
Montreal		37.00
Detroit	49.00	42.25

PAVING STONE

New York	5-in. granite	No quotations	
Chicago	About 4x8x4 dressed	$3.25	sq.yd
	About 4x8x4 common	2.90	sq.yd
San Francisco	Basalt block 4x7x8	65.00	per M
Kansas City	Granite	3.65	sq.yd
Boston	5-in. granite	110.00	per M
St. Paul	Sandstone	2.47	sq.yd
Atlanta	Granite	2.00	sq.yd
Detroit	Granite, 26½ blocks per sq. yd.	2.85	sq.yd
Baltimore	Granite	2.40	sq.yd
Montreal	Granite	5.90	sq.yd
New Orleans	Granite	2.80	sq.yd
Cincinnati	Granite	3.25	sq.yd

FLAGGING

New York	Bronx	$0.24	sq.ft
	Manhattan	.25	sq.ft
	Queens, 5 ft.	.26	sq.ft
	6x20-in. cross-walk	95	lin.ft
Chicago	18 in. wide	.70	lin.ft

CURBING—Bluestone per lineal foot, in New York, costs 70c. for 5x16 in., 80c. for 5x18 in.

WOOD BLOCK PAVING—

	Size of Block	Treatment	Per Sq.Yd.
New York	3½	16	$3.75
New York	4	16	4.10
Boston	3	16	3.00
Chicago	4	16	4.50
Chicago	3½	16	3.50
Chicago	City specifications		5.00
St. Louis	3½	16	2.90
St. Louis	4	16	3.32
Seattle	4	16	Off market
Kansas City	4	16	3.00
Minneapolis	3½	16	3.10
Atlanta	3½	16	2.30
New Orleans	4	16	3.63
Dallas	4	18	3.57
Baltimore	3½	16	3.60
Montreal	4	16	4.60
Detroit	3½	16	3.40

CONSTRUCTION MATERIALS

SAND AND GRAVEL—Price for cargo or carload lots is as follows, per cu.yd.

	— Gravel — 1½ In. — Current	One Yr. Ago	— ¾ In. — Current	One Yr. Ago	— Sand — Current	One Yr. Ago
New York	$3.00	$2.00	$3.00	$2.00	$1.50	$1.25
Denver	1.80	1.60	1.80	1.60	1.40	1.25
Chicago	2.15	1.35	2.15	1.35	2.15	1.35
Kansas City	3.25	2.50	3.75	3.00	1.25†	1.00
St. Louis	1.50	1.78	1.55	1.82	1.65*	1.68
Seattle, per ton	1.25	1.25	1.25	1.25	1.25	1.25
Dallas	2.50	2.00	2.50	2.00	2.00	1.50
Minneapolis	1.50	1.25	1.35	1.35	.75	.60
Cincinnati			1.50		1.45	1.35‡
San Francisco	1.50	1.15	1.50	1.15	1.50	1.00
Boston	3.00	1.60‡	3.00	1.65‡	3.00	
New Orleans	3.00	2.40		2.40	1.40	1.20
Los Angeles	1.25	1.02	1.25	1.02	1.15	.70
Atlanta, per ton	2.25	2.00	2.25		1.15	1.10
Detroit	2.50	1.90	2.50	1.90	2.50	1.80
Baltimore	1.40‡		1.60‡	1.60	.80	
Montreal, per ton	1.20	1.20	....	....	1.40	1.10

* Fine white sand, Pacific and Ottawa, per ton $6.
† Kaw River sand is $1.75 per yd. ‡ per ton.

CRUSHED STONE—Price for cargo or carload lots is as follows, per cu.yd.:

	1½ In. Current	1½ In. One Year Ago	¾ In. Current	¾ In. One Year Ago
New York	$1.90@2.00	$1.65@1.75	$2.15	$1.75@1.85
Chicago	2.15	1.30	2.15	1.30
St. Louis	1.90	1.35	1.90	1.35
Dallas	3.50	2.25	3.50	2.25
San Francisco	1.50	1.15	1.50	1.15
Boston	3.00*(del)	3.00	3.00 (del)	3.00
Minneapolis	1.50†	1.15	1.60	1.25
Denver	3.75	....	3.75	1.60
Kansas City	2.35	1.90	*2.35*	2.00
Seattle (Del.)	3.50	1.50	3.20	1.50
Cincinnati	....	....	1.65	....
Atlanta	3.10*	2.35	....	2.60
Los Angeles	1.60*	1.12	1.70*	1.12
Detroit	**2.50**	1.20	**2.50**	1.20
Baltimore	1.60*	...	2.00*	
Montreal	1.75*	1.90	2.00*	2.15

* Per ton. † Limestone; traprock, $1.60 and $1.80 per ton for 1½ and ¾-in.

CRUSHED SLAG—Price of crushed slag per net ton in carload lots:

	1½-In.	¾-In.	Roofing	Sand
Lebanon or Bethlehem, Pa	$1.00	$1.00	$2.50	$0.90
Easton, Pa	1.20	1.20	3.00	1.10
Buffalo, N. Y	1.25	1.00	2.00	1.00
East Canaan, Conn	1.25	1.35	3.50	1.10
Birmingham, Ala	1.25	1.25	2.05	1.00
Toledo, Ohio	1.50	1.50		

LIME—Warehouse prices:

	Hydrated per Ton Finished	Hydrated per Ton Common	Lump per 200-Lb. Barrel Finished	Lump per 200-Lb. Barrel Common
New York	$19.50	$18.50	$3.50*-at plant-	$3.30*
Kansas City	27.20	26.20	2.50	2.40
Chicago				1.75
St. Louis	25.00	21.00		2.25
Boston	26.25	24.25	3.40†	3.25†
Dallas		25.00		2.50†
Cincinnati	17.20	16.20		13.20‡
San Francisco	**28.50**	**19.50**	....	2.25
Minneapolis	24.00	19.00	1.80†	1.60†
Detroit	*26.00*	24.00	*2.16†*	1.80†
Seattle	30.00	....		1.85†
Los Angeles	2.75†	2.20†	2.75†	2.00†
Baltimore	*23.50*	*19.75*		*14.60‡*
Montreal	25.00	25.00	15.00‡	15.00‡
Atlanta	22.50	....		....
New Orleans	....	2.25 (bbl.)	.....	2.45

* 300-lb. barrels. †Per 180-lb. barrel. ‡ Per ton.

NOTE—Refund of 10c. per barrel with 25c per ton off on hydrated

NATURAL CEMENT—Price to dealers for 500 bbl. or over, f. o. b., exclusive of bags:

	Current	One Year Ago
Minneapolis (Austin)	$1.50	$1.45
Kansas City (Ft. Scott)	1.60	1.40
New Orleans	3.36	2.52
Atlanta (Magnolia)	1.90	....
Cincinnati (Louisville)	2.85	1.50
Boston (Rosedale)	2.35	....

PORTLAND CEMENT—Current prices are for barrels in carload lots, *without* bags, to contractors:

	Current Without Bags	One Month Ago Without Bags	One Year Ago Without Bags
New York (del.)	**$3.80**	**$3.30**	$2.30
Jersey City (del.)	**2.97**	2.47	2.27
Boston	2.60	*2.60*	2.42
Chicago	2.15	**2.15**	2.00
Pittsburgh	2.20	**2.20**	2.05
Cleveland	2.42	**2.42**	2.32
Detroit	**5.00**	*2.28*	2.08
Indianapolis	2.42	**2.42**	2.27
Toledo	2.28	**2.28**	2.12
Milwaukee	2.20	**2.20**	2.11
Duluth	2.20	**2.20**	2.10
Peoria	2.32	**2.32**	2.12
Cedar Rapids	2.40	**2.40**	2.18
Davenport	2.36	**2.36**	2.14
St. Louis	2.65	**3.05**	2.20
San Francisco	**2.88**	2.63	2.40
New Orleans	**3.52**	2.96	*2.36*
Minneapolis	2.22	2.22	2.20
Denver	2.82	2.82	2.67
Kansas City	**2.76**	2.56	**2.57**
Seattle	3.03	3.03	2.53
Dallas	2.15	2.15	2.03
Atlanta	2.78	2.70	2.60
Cincinnati	*2.85*	2.90	
Los Angeles	3.10	3.10	**2.78**
Baltimore (del)	3.85†	3.85	....
Montreal (including bags)	*3.00*	*3.00†*	**2.50**
Detroit			2.20

NOTE—Bag charge is generally 25c. each. *Delivered Manhattan, The Bronx or Brooklyn; bags 25c. each. †Including bags.

TRIANGLE MESH—Price per 100 sq.ft. in carload lots:

PLAIN 4-INCH by 4-INCH MESH

Style Number	Sectional Area Square Inches per Ft.	Width	Pittsburgh	New York*	Chicago	St. Louis	Dallas	San Francisco
032	0.032	$0.92	$1.16	$0.98	$0.99	$1.13		$1.32
049	0.049	1.18	1.46	1.26	1.26	1.43		1.67
068	0.068	1.44	1.86	1.53	1.56	1.79		2.06
093	0.093	1.85	2.39	1.97	2.00	2.41		2.65
126	0.126	2.28	3.02	2.43	2.47	2.92		3.28
153	0.153	2.72	3.59	2.90	2.95	3.48		3.93
180	0.180	3.12	4.13	3.33	3.39	3.99		
245	0.245	4.12	5.44	4.40	4.47	5.27		
287	0.287	4.76	6.29	5.08	5.16	6.10		6.86
336	0.336	5.52	7.30	5.89	5.99	7.06		
395	0.395	6.40	8.45	6.83	6.94	8.19		

PAVING

036P	0.036	$0.71	$0.92	$0.76	$1.77	$0.80		
053P	0.053	1.00	1.28	1.06	1.08	1.12		
072P	0.072	1.26	1.66	1.34	1.37	1.46		
097P	0.097	1.62	2.12	1.73	1.76	1.88		
049R	0.049	1.00	1.28	1.06	1.08	1.12		
067R	0.067	1.26	1.65	1.34	1.37	1.46		
089R	0.089	1.62	3.11	1.73	1.76	1.88		

Made in 16-, 20-, 24-, 28-, 32-, 36-, 40-, 44-, 48-, 52- and 56-in. width in rolls 150-, 200- and 300-ft. lengths. Galvanized is about 10% higher.

‡Note—**Practically no triangle mesh in New York market**

EXPANDED METAL LATH—Prices in carload lots per 100 yd. for painted are as follows:

Gage	Weight	New York‡ Current Carloads	New York‡ Less Carloads	Chicago	St. Louis	San Francisco	Dallas
27	233	$32.10	$32.20*	$33.60†	$35.00	$36.00	$32.75
26	250	33.45	33.65*	35.20†	36.00	....	34.50
25	300	34.90	35.00*	36.90†	....	39.00	36.75
24	340	36.50	36.65*	40.00†	39.00	44.00	39.25
22	450	39.60	39.80*	45.10†	.....	.....	43.30

* Delivered on job.

†Galvanized is $8 per 100 yd., additional.

‡**Note—Practically no metal lath in New York market.**

BARS, CONCRETE REINFORCING—Following quotations are per 100 lb.

ROLLED FROM BILLETS

In	Mill Pittsburgh	New York Current	Chicago	Dallas	San Francisco
½ and larger	$2.35@$2.75	$3.52@$5.00	$3.37@$3.90	$3.87	$4.75 $5.30
⅝	2.40@ 2.75	3.57@ 5.00	3.42@ 4.00	3.92	4.80 5.35
¾	2.45@ 2.75	3.62@ 5.00	3.47@ 4.05	3.97	4.95 5.40
⅞	2.60@ 2.75	3.77@ 5.00	3.62@ 4.20	4.12	5.00 5.55
1	2.85@ 2.75	4.02@ 5.00	4.07@ 4.60	4.57	5.05 5.80

Twisted bars cut to length take extra of 29½c. per 100 lb.

ROLLED FROM RAILS

	Chicago	St. Louis	Dallas		Chicago	St. Louis	Dallas
½ in. and larger	$3.75	$3.50	$4.25	½	$4.00	$3.75	..
⅝	3.80	3.55	4.30	⅝	4.25		
¾	2.85	3.60	.....				

BRICK—To contractors price per 1000 in cargo or carload lots is as follows:

	Common Current	Common One Month Ago	Common One Year Ago	Paving Block 3-inch	Paving Block 4-inch]
New York	$25.00	$25.00	$15.00	$48.50*	†52.50*
New Orleans	24.50	23.00	**17.50**		
Chicago	**15.00**	14.00	12.00		39.51
St. Louis, salmon	16.00‡	16.00	10.00		37.00
Denver	17.00	17.00	12.00		
Dallas	24.00	24.00	**18.00**		
San Francisco	**18.00**	15.00	12.50		44.38
Los Angeles	13.50	13.50	12.50		
Boston	32.00	30.00	18.00		
Minneapolis	21.00	20.00	10.25		
Kansas City	22.00	22.00	15.00		
Seattle	15.00	15.00	15.00	44.50	**53.50**
Cincinnati	24.00	24.00	16.00		
Montreal (del.)	*16.00*	17.50	**15.00**		
Detroit	23.00	23.00	13.50	40.00	48.00
Baltimore (del.)	20.00–25.00	18.00–22.00	.....	40.00	*44.00*

For paving blocks 3½x8½x3 and 3½x8½x4 respectively. †Hard brick $20.50 in St. Louis.

HOLLOW TILE—Price per block in carload lots for hollow building tile:

	New York— Current on Trucks	New York— One Year Ago	Chicago	St. Louis	San Francisco	Factory Perth Amboy, N. J.
4x12x12		$0.11475	$0.1516	None	$0.1425	
6x12x12		.153	.2274	"	.1800	
8x12x12		.204	.2728	"	.2925	
10x12x12		.....	.3411	"	.....	
12x12x12		.....	.4093	"	.....	

Note—Principal manufacturer is behind in deliveries.

	4x12x12	8x12x12	12x12x12
Boston	$0.25	$0.45	$0.70
Minneapolis	.087	.158	.248
Cincinnati	.125	.2186	.3286
Kansas City		No prices obtainable	
Denver	.12	.185	.....
Seattle	.09	.175	.30
Atlanta	.115	.19	.28
Los Angeles	.10	.175	...
New Orleans	.238	.304	.43
Detroit		23 per cent. off list	
Montreal	.22	.30	.36
Baltimore	.27	.48	.63

STRUCTURAL MATERIAL—Following are base prices f.o.b. mill, Pittsburgh, together with quotations per 100 lb. from warehouses at places named:

	Mill Pittsburgh	New York Current	New York 1 Yr. Ago	St. Louis	Chicago	San Francisco
Beams, 3 to 15 in.	$2.45@$3.75	$4.47	$3.47	$4.04	$3.97	$5.85
Channels, 3 to 15 in.	2.45@ 3.75	4.47	3.47	4.04	3.97	5.85
Angles, 3 to 6 in., ¼ in. thick	2.45@ 3.75	4.47	3.47	4.04	3.97	5.85
Tees, 3 in. and larger	2.45@ 3.75	4.52	3.52	4.09	4.02	5.85
Plates	2.65@ 3.75	4.67	3.67	4.24	4.17	6.30

RIVETS—The following quotations are per 100 lb.:

STRUCTURAL

	Mill Pittsburgh	New York Current	New York One Yr. Ago	Warehouse Chicago	Warehouse St. Louis	Warehouse San Francisco	Warehouse Dallas
½ in. and larger	$4.72	$6.00	$5.05	$5.62	$5.69	$6.65	$7.50

CONE HEAD BOILER

½ in. and larger	4.82	7.10	5.15	5.72	5.79	6.75	7.50
⅝ and ¾	4.97	7.25	5.30	5.87	5.94	7.00	7.50
⅞ and 1	5.22	7.50	5.55	6.22	6.19	7.25	7.75

Lengths shorter than ½ in. take an extra of 50c. Lengths between 1 in. and 2 in. take an extra of 25c.

NAILS—The following quotations are per keg from warehouse:

	Mill Pittsburgh	New York	Chicago	San Francisco	Dallas	Montreal
Wire	$3.25@$4.50	$8.50	$4.15	$6.00	$6.90	$4.95
Cut	6.20	9.00	6.45	8.50	6.40	5.00

PREPARED ROOFINGS—Standard grade rubbered surface, complete with nails and cement, costs per square as follows at manufacturing points:

	1-Ply c.l.	2-Ply l.c.l.	3-Ply c.l.
No. 1 grade	$2.40	$2.90	$3.45
No. 2 grade	2.15	2.00	3.10

Slate-surfaced roofing (red and green) in rolls of 108 sq.ft. costs $3.50 per roll in carload lots and $3.75 for smaller quantities.

Shingles, red and green slate finish, cost $7.75 per square in carloads; $8.00 in smaller quantities, in Philadelphia.

ROOFING MATERIALS—Prices per ton f.o.b. New York and Chicago:

Tar felt (14 lb. per square of 100 sq.ft.) per roll	$3.50
Tar pitch (in 400-lb. bbl.) per 100 lb.	1.85
Asphalt pitch (in barrels) per ton	46.50
Asphalt felt (light) per ton	118.00
Asphalt felt (heavy) per ton	119.50

SHEETS—Quotations are in cents per pound in various cities from warehouse also the base quotations from mill:

Blue Annealed	Large Mill Lots Pittsburgh	St. Louis	Chicago	San Francisco	New York Current	New York One Yr. Ago
No. 10	$3.75@$7.00	$7.09	$7.02	$8.25	$6.62@$8.00	$4.57
No. 12	3.80@ 7.05	7.09	7.07	8.30	6.67@ 8.05	4.62
No. 14	3.85@ 7.10	7.09	7.12	8.35	6.22@ 8.10	4.67
No. 16	3.95@ 7.20	7.09	7.17	8.45	6.82@ 8.20	4.77
Black						
*Nos. 18 and 20	4.15@ 7.30	8.10	7.80	9.35	7.80@ 8.80	5.17
*Nos. 22 and 24	4.20@ 7.35	8.10	7.85	9.40	7.85@ 8.85	5.22
*No. 26	4.25@ 7.40	8.10	7.90	9.45	7.90@ 8.90	5.27
*No. 28	4.35@ 7.50	8.10	8.00	9.55	8.00@ 9.00	5.37
Galvanized						
No. 10	5.80@ 7.50	9.60	8.50	.....	8.25@10.00	5.50
No. 12	4.80@ 7.60	9.60	8.60	10.10	8.35@10.10	5.55
No. 14	4.80@ 7.60	9.60	8.60	10.10	8.35@10.10	5.60
Nos. 18 and 20	5.10@ 7.90	9.60	8.90	10.40	8.65@10.40	5.90
Nos. 22 and 24	5.25@ 8.05	9.60	9.05	10.55	8.80@10.55	6.05
*No. 26	5.40@ 8.20	9.60	9.20	10.70	8.95@10.70	6.20
*No. 28	5.70@ 8.50	9.60	9.50	11.00	9.25@11.00	6.50

*For painted corrugated sheets add 30c. per 1000 lb. for 5 to 28 gage; 25c. for 19 to 24 gages; for galvanized corrugated sheets add 15c., all gages.

LINSEED OIL—These prices are per gallon:

	New York Current	New York One Year Ago	Chicago Current	Chicago One Year Ago
Raw in barrel (5 bbl.)	$1.63	$1.90	$2.05	$2.10
5-gal. cans	1.65*	2.98	2.30	2.30

*To this price must be added the cost of the cans (returnable), $2.25 for case of six.

WHITE AND RED LEAD—Base price per pound:

	Red Current Dry	Red Current In Oil	Red 1 Year Ago Dry	Red 1 Year Ago In Oil	White Current Dry and In Oil	White 1 Yr. Ago Dry and In Oil
100-lb. keg	15.50	17.00	13.00	14.50	15.50	13.00
25 and 50-lb. kegs	15.75	17.25	13.25	14.75	15.75	13.25
12½-lb. keg	16.00	17.50	13.50	15.00	16.00	13.50
5-lb. cans	18.50	20.00	15.00	16.50	18.50	15.00
1-lb. cans	20.50	22.00	16.00	17.50	20.50	16.00

500 lb. lots less 10% discount; 2000 lb. lots less 10-2½% discount.

LUMBER

San Francisco—Prices of rough Douglas fir No. 1 common, in more than carload lots:

	Lumber Prices in Yards at San Francisco 6-8-12 and 14 Ft	10-16-18 and 20 Ft.	22 and 24 Ft.	25 to 32
3x3 and 4	$33.50	$34.00	$35.00	$37.00
3x6 and 8	34.50	35.00	36.00	38.00
4x4, 6 and 8	35.00	36.00	37.00	39.00
3x10 and 12	35.00	36.00	37.00	39.00
3x14	35.50	36.50	37.50	39.50
4x10 and 12	35.00	36.00	37.00	39.00
4x14	36.00	37.00	38.00	40.00

	24 Ft. and Under	25 to 32 Ft.	33 to 40 Ft.
6x10	$34.50	$36.50	$37.50
6x14	36.00	38.00	38.50
8x10	34.50	36.50	37.50
8x14	36.00	38.00	38.50

New York, Chicago and St. Louis

	Southern Pine New York* 20 Ft. and Under	Southern Pine New York* 22-24 Ft.	Southern Pine Chicago 20 Ft. and Under	Southern Pine Chicago 22-24 Ft.	Yellow Pine St. Louis 20 Ft. and Under	Yellow Pine St. Louis 22-24 Ft.
3x 4 to 8x 8	$53.00	$54.00	$68.00	$69.00	$50.00	$51.00
3x10 to 10x10	57.00	58.00	70.00	71.00	55.00	56.00
3x12 to 12x12	65.00	66.00	73.00	74.00	57.50	58.50
3x14 to 14x14	70.00	71.00	78.00	79.00	65.00	66.00
3x16 to 16x16	75.00	76.00	83.00	84.00	67.50	68.50
3x18 to 18x18	85.00	86.00	88.00	89.00	72.50	73.50
4x20 to 20x20	90.00	91.00	.....	.....	.....	.....

*Prices from Lumbermen's Bureau

Over 24 ft.—Add $1 for each additional 2 ft. in length up to 40 ft. for sizes 12 x 12 and under; for sizes over 12 x 12 add $2. For merchantable add $2 to sizes 10 x 10 and under. For prime add $2 to the price of merchantable for all sizes.

Other Cities

	8 x 8-In. x 20-Ft. and Under P.	8 x 8-In. x 20-Ft. and Under Fir	8 x 8-In. x 20-Ft. and Under Hemlock	8 x 8-In. x 20-Ft. and Under Spruce	12 x 12-In. 20 Ft. and Under P.	12 x 12-In. 20 Ft. and Under Fir
Boston	$100.00	$85.00	.....	$80.00	$110.00	$105.00
Kansas City	51.00	51.25	$51.25	51.25	60.00	51.25
Seattle	.....	34.00	.....	.....	.....	35.00
New Orleans	53.00	.....	.....	.....	59.00	.....
St. Paul	62.00	61.00	61.00	47.50	43.00	58.00
Atlanta	62.50	64.50	66.00	76.00	79.50	82.00
Baltimore	75.00	.....	.....	.....	87.50	.....
Cincinnati	45.00	50.00	50.00	.....	55.00	55.00
Montreal	80.00	80.00	65.00	75.00	75.00	100.00
Los Angeles†	.....	57.00	.....	.....	.....	59.00
Detroit	67.00	.....	.....	.....	79.00	75.00
Denver	.....	65.00	65.00	65.00	.....	66.00

	1-In. Rough, 10 In. x 16 Ft. and Under P.	1-In. Rough, 10 In. x 16 Ft. and Under Fir	1-In. Rough, 10 In. x 16 Ft. and Under Hemlock	2-In. T. and Gr. 10 In. x 16 Ft. P.	2-In. T. and Gr. 10 In. x 16 Ft. Fir
Boston	$115.00	$85.00	$65.00	$100.00	$85.00
Kansas City	102.00	106.50	106.50	113.00	112.75
Seattle	.....	37.50	.....	.....	38.50
New Orleans	.....	.....	.....	67.50	.....
St. Paul	54.00	54.00	53.00	64.50	58.50
Atlanta	85.00	90.00	.....	77.50	87.50
Baltimore (box)	65@67.50	.....	.....	60–65.00	.....
Cincinnati	50.00	55.00	50.00	45.00	50.00
Montreal	75.00	75.00	66.00	.....	.....
Los Angeles	.....	58.00	.....	.....	.....
Detroit	50.00	.....	49.00	44.00	.....
Denver	.....	62.00	62.00	140.00	127.50

*Montreal—Up to 32 ft.; over which, $3.00 per M. increase up to 30 ft.

† Base price, 2 x 3's and 2 x 4's, 8 to 14 ft., is $54.00

Detroit—Dimension stuff ranges from $60 to $68. See "ups and downs in the market."

Dallas—Yellow pine. Price per M:

	June 1, 1920
1 in. rough, 10 in. and under, 16 ft. and under	$62.50
2 in., t and g., dressed and matched, 10 in. x 16 ft. and under	62.50
8 x 8 and under, 20 ft. and under	72.50
12 x 12, 20 ft. and under	75.00

FREIGHT RATES

On finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, flat sheets (except planished), chains, etc., the following freight rates are effective in cents per 100 lb.:

Boston	$0.30	New Orleans	$0.38½
Buffalo	.17	New York	.27
Chicago	.27	Pacific Coast (all rail)	1.25*
Cincinnati	.23	Philadelphia	.24½
Cleveland	.17	St. Louis	.24
Denver	.99	St. Paul	.49½
Kansas City	.59	Detroit	.33
		Baltimore	.27½

Note—Add 3% transportation tax. * Minimum carload, 50,000 lb.

CONTRACTORS' SUPPLIES

STEEL SHEET PILING—The following price is base per 100 lb. f. o. b. Pittsburgh, with a comparison of a month and a year ago:

Current	One Month Ago	One Year Ago
$2.55@$3.65	$2.55@3.65	$2.25

WIRE ROPE—Discounts from list price on regular grades of bright and galvanized are as follows:

	New York and St. Louis
Hercules red strand, all constructions	20%
Patent flattened strand, special and cast steel	20%
Patent flattened strand, iron rope	5%
Plow steel round strand rope	30%
Special steel round strand rope	30%
Cast steel round strand rope	22½%
Iron strand and iron tiller	5%
Galvanized iron rigging and guy rope	+12%

San Francisco: Galvanized Iron Rigging and Guy Ropes, +17½%; Bright Plow, 25% off.

Chicago, +12½ on galvanized, 30 off on bright.

MANILA ROPE—For rope smaller than ¾-in. the price is ½ to 2c. extra; while for quantities amounting to less than 600 ft. there is an extra charge of 1c. The number of feet per pound for the various sizes is as follows: ¾-in., 8 ft.; ½-in., 6; ⅝-in., 4½; 1-in., 3½; 1¼-in., 2 ft. 10 in.; 1½-in., 2 ft. 4 in. Following is price per pound for ¾-in. and larger, in 1200-ft. coils:

Boston	$0.30	New Orleans	$0.28½
New York	.29	Los Angeles	.31
Chicago	.27½	Seattle	.28
St. Paul	.27½	St. Louis	.26½
San Francisco	.27	Montreal	.35½
Atlanta	.29½	Detroit	.26
Denver	.27½	Baltimore	.27
Cincinnati	.35	Dallas	.34½
Kansas City	0.30½		

EXPLOSIVES—Price per pound of dynamite in small lots and price per 25 lb. keg for black powder.

	Low Freezing 20%	Gelatin 40%	Gelatin 60%	Gelatin 80%	Black Powder
New York		$0.34½	$0.34½		$2.30
Boston	$.24	235	265	$ 295	2.40
Kansas City	247½	.27	30	342½	2.60
Seattle	.18	21½	24½	29	2.45
Chicago	.2175	.2525	2975	34	2.45
St. Paul	.185	.2275	2525	2950	2.25
St. Louis	.2175	.26	285	295	1.90
Denver	.205	.2475	2725	315	2.50
Dallas	.265*	275	3025	....	2.60
Los Angeles	.22	.27	31	.	2.95
Atlanta	.22	.245	265	....	2.55
Baltimore	.225	2675	3075	.325	2.40
Cincinnati	.2275	2525	2725	....	2.30
Montreal	30	32	37	38	4.10
New Orleans	.2425	2825	3125	38	2.50

* 30 Per Cent.

POLES—For plain pine poles, delivered New York, the price is as follows:

10-in. butts, 5-in. tops, length 20-30 ft	$9.00
12-in. butts, 6-in. tops, length 30-40 ft	11.50
12-in. butts, 6-in. tops, length 41-50 ft	12.50
14-in. butts, 6-in. tops, length 51-60 ft	21.00
14-in. butts, 6-in. tops, length 61-71 ft	23.50
	Dallas
6-in. x 20-ft	$4.60
6-in. x 30-ft	7.10
8-in. x 30-ft	8.45
8-in. x 35-ft	10.38

OLD MATERIAL—The prices following are per gross ton paid to dealers and producers in New York. In Chicago and St. Louis the quotations are per net ton and cover delivery at the buyer's works, including freight transfer charges.

	New York	Chicago	St. Louis
No. 1 railroad wrought	$30.00	$25.50	$28.00
Stove plate	24.50	28.00	30.50
No. 1 machinery cast	29.00	36.00	37.00
Machine shop turnings	15.50	10.00	13.00
Cast borings	17.50	12.50	15.50
Railroad malleable cast	30.00	25.50	27.00
Re-rolling rails	29.00		
Relaying rails	54.00	50@55	50@55

SHIP SPIKES—Current prices per 100 lb.

	San Francisco		Seattle
In	Galv.	Black	Black
½	$9.20	$8.50	$8.55
⅝	8.75	6.75	8.25
¾	8.60	6.60	8.30

Pittsburgh base, $4.50 per 100 lb.

LABOR RATES AND CONDITIONS THROUGHOUT THE COUNTRY

S means scarce; E, enough; P, plentiful

Cities	Bricklayers	Carpenters	Hoisting Engineers	Hod Carriers	Pile Drivers	Structural Iron Workers	Common Labor	Remarks
Atlanta	$0.90S	$0.60-75P	$0.50-65P	$.40-.45P	$0.60-.65	$0.75	$0.35S	Atlanta—Great activity in construction. Common labor scarce.
Baltimore	1.00P	.80-90E	.87½E	.46-.54E	.74P	1.00E	.35-.45P	Baltimore—Satisfactory supply of labor.
Boston	1.00E	1.00E	1.00E	.85E	1.25E	1.00E	.67½S	Boston—Labor scarce. Construction work slowing down
Cincinnati	1.25S	.90E	.75E	.70E		.87½P	.60S	Cincinnati—Common labor scarce.
Cleveland	1.00S	.90S	1.00E	.57½E	.80E	1.00E	.57½E	Dallas—Common labor very scarce. Bricklayers, ironworkers and carpenters scarce.
Dallas	1.25S	1-1.25S	1.00E	.60E	1.00E	1.25S	44-.60S	Denver—General increase. Double pay for overtime.
Denver	1.12½E	1.12½E	1.00E	.68½-.75		1.00E	50E	Detroit—All classes of labor is plentiful owing to slackness in construction because of lack of material. Bricklayers ask $1.25; hoisting engineers ask $1.25.
Detroit	1.25P	1.00P	1.10P	.70P	1.10P	1.25P	65P	Kansas City—Schedule now in effect.
Kansas City	1.12½	1.00	1.00	.90	1.00	1.10	.75	Los Angeles—Rates shown are union; non-union a little less; but union scale prevails generally. Slight slowing up of construction.
Los Angeles	1.25P	.87½P	.87½P	1.00P	.87½P	.87½P	56½-.62½E	Minneapolis—Rates given by Minneapolis Builders' Exchange.
Minneapolis	1.25	1.00P	1.00	.65	.80	.85	.58-.70	Montreal—Carpenters now work 8 hours, as do bricklayers. Common labor plentiful, owing to immigration.
Montreal	1.00	.80-.85	.65S	.50@.60S	.50	.50-.65	.45-.55P	New Orleans—Pile drivers strike July 1 for $1.25.
New Orleans	1.00E	.90	.100E	.87½E	100	1.00E	35-.50P	New York—Agreement of Nov. 20, 1919, was modified as shown, effective May 1, 1920. Excavators, 75c.; Concrete workers, 81½c.
New York	1.25	1.12½	1.25	.87½	1.12½	1.12½	.75-.80	Pittsburgh—All classes have been on strike since June 1. Carpenters are asking $1.50.
Pittsburgh	1.12½S	.90S	.90S	.80S	1.00	1.25S	.50S	St. Louis—Bricklayers' helpers receive 80c.; Carpenters' helpers, 67½c.; as to hoisting engineers the rates are $1.12½ for one drum, $1.25 for two drums, and $1.21½ for road roller. Pile drivers receive $1.00 on wood and concrete, $1.25 on steel. Unskilled labor is classified as follows: Common, 52c.; construction, 67½c.; pipe laying, 75c.; track, 53c.
St. Louis	1.25	1.25	1.12½-1.25	.70	1.00-1.25	1.25	.52-.75	San Francisco—All lines busy. Common labor quotation is for union labor
San Francisco	1.25E	1.06½E	1.12½E	.93½E	1.06½E	1.12½E	.81½E	
Seattle	1.12	.93½	.94	.75-.80	.90	1.00	.72½	

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close			See Eng. News-Record
July	7	Dearborn, Mich.	June 24
		Adv. June 24 and July 1.	
July	9	Collinsville, Ill.	June 10
		Adv. June 24 and July 1.	
July	10	Orem (Provo P. O.), Utah	July 1
July	12	Buffalo, Minn.	July 1
July	15	Pipestone, Minn.	July 1
July	23	Akron, O.	June 24
		Adv. July 17 to July 1.	

SEWERS

July	3	Long Island City, N. Y.	July 1
July	6	Coatesville, Pa.	June 24
		Adv. June 24 and July 1.	
July	6	Boonton, N. J.	June 17
July	6	Danville, Ky.	June 24
		Adv. June 24 and July 1.	
July	6	Detroit, Mich.	July 1
July	6	Laredo, Tex.	July 1
July	9	Worthington, O.	June 24
July	12	Amery, Wis.	July 1
July	12	Milford, Mich.	June 24
July	19	Dallas, Ore.	May 27
Aug.	2	Pontiac, Mich.	July 1

BRIDGES

July	2	Lyons, N. Y.	June 24
		Adv. June 17 to July 1	
July	2	Abiquin, N. M.	June 24
July	3	Williamsport, Pa.	June 24
July	3	Granville, N. Y.	June 17
July	5	Greenfield, Ind.	June 17
July	6	Elk Point, S. D.	June 17
July	6	Yorba Linda, Cal.	June 17
July	6	Meridian, Miss.	June 24
July	6	Manchester, N. H.	June 17
July	6	San Jose, Cal.	June 24
July	7	Red Bank, N. J.	June 17
		Adv. June 24 and July 1.	
July	7	Springfield, Ill.	July 1
July	8	Richmond, Va.	July 1
July	9	Missouri	July 1
July	12	Chadds Ford, Pa.	June 24
		Adv. June 24 and July 1.	
July	12	Nevada	June 24
		Adv. June 24 and July 1.	
July	12	West Union, O.	July 1
July	17	Tiffin, O.	July 1
July	21	Frederica, Del.	July 1
		Adv. July 1.	

STREETS AND ROADS

July	2	New York	June 24
		Adv. June 24 and July 1.	
July	3	St. Davids, Que.	June 24
July	5	New Madrid, Mo.	June 17
		Adv. June 24 and July 1.	
July	5	Montreal, Que.	July 1
July	6	Bucyrus, O.	July 1
July	6	Massachusetts	July 1
July	6	Wilmington, Del.	June 17
July	6	Amsterdam, N. Y.	June 24
July	6	Santa Barbara, Cal.	June 17
July	6	Visalia, Cal.	June 17
July	6	Charleston, S. C.	June 24
July	6	Baltimore, Md.	June 24
		Adv. June 24 and July 1.	
July	6	Athens, Ga.	June 24
July	6	Dallas, Ore.	May 27
July	6	Parnassus, Pa.	June 24
July	6	Baltimore, Md.	June 24
July	6	New Mexico	June 24
July	6	Maryland	June 24
July	6	Columbia, S. C.	July 1
July	6	Wisconsin	July 1
July	6	Ontario	July 1
July	6	Indiana	July 1
July	6	Wisconsin	July 1
July	6	New York, N. Y.	July 1
July	6	Carthage, N. Y.	July 1
July	7	Indiana	July 1
July	7	Glens Falls, N. Y.	July 1
		Adv. July 1.	
July	7	North Carolina	July 1
July	7	Caledonia, Minn.	July 1
July	7	Baltimore, Md.	July 1
		Adv. July 1.	
July	7	Springfield, Ill.	June 24
July	7	Rhode Island	June 24
		Adv. June 24 and July 1.	
July	7	Jersey City, N. J.	June 24
July	7	Hood River, Ore.	June 24
July	7	Breckenridge, Minn.	June 24
July	7	Hudson Falls, N. Y.	June 24
		Adv. June 24 and July 1.	
July	7	Baltimore, Md.	June 24
		Adv. June 24 and July 1.	
July	7	Wisconsin	June 24
July	7	Springfield, Ill.	July 1
July	7	Kingston, S. C.	July 1
July	8	Washington, Kan.	June 24
July	8	Indiana	July 1
July	8	Wisconsin	July 1
July	8	Clarion, Ia.	July 1
		Adv. July 1.	
July	8	St. George, S. I., N. Y.	July 1
July	9	North Carolina	July 1
July	9	Monticello, Mo.	July 1
July	9	Wisconsin	July 1
July	9	Akron, O.	June 24
		Adv. June 24 and July 1.	
July	9	Kansas City, Kan.	June 24
July	10	Quebec	June 24
July	10	New Mexico	June 24
July	12	Fergus Falls, Minn.	June 17
July	12	Madison, W. Va.	June 17
July	12	Auburn, N. Y.	June 24
		Adv. June 24 and July 1.	
July	12	Troy, Kan.	June 24
July	12	Baltimore, Md.	June 24
		Adv. June 24 and July 1.	
July	12	Brainerd, Minn.	July 1
July	12	Olympia, Wash.	July 1
July	13	Redwood Falls, Minn.	July 1
July	13	Ft. Scott, Kan.	June 24
July	13	Ft. Scott, Kan.	July 1
July	14	Ontario	July 1
July	14	Baltimore, Md.	June 24
		Adv. June 10 to July 1.	
July	14	Tavares, Fla.	June 10
July	14	Mora, Minn.	June 24
July	15	Austin, Tex.	July 1
July	15	Flemington, N. J.	June 24
July	16	Nashville, Tenn.	July 1
July	16	Charleston, W. Va.	July 1
July	16	New Mexico	June 24
July	17	New Mexico	June 24
July	19	Okeechobee, Fla.	July 1
		Adv. July 1.	
July	19	Silver Lake, O.	July 1
July	20	Moundsville, W. Va.	July 1
July	23	Garden City, Kan.	June 24
July	24	Crowley, La.	July 1
		Adv. July 1.	
July	25	Ohio	July 1

EXCAVATION AND DREDGING

July	6	Paducah, Ky.	June 24
		Adv. June 10 to July 1.	
July	7	Montezuma, Ia.	June 24
		Adv. June 17 to July 1.	
July	17	Belzoni Miss.	June 24
June	28	Wasseca, Minn.	June 24

INDUSTRIAL WORKS

July	6	Detroit, Mich.	July 1
July	7	Dannemora, N. Y.	July 1
		Adv. June 24 and July 1.	
July	7	Ogdensburg, N. Y.	July 1
		Adv. July 1.	
July	12	Butler, N. J.	July 1
		Adv. July 1.	
Sept.	1	Hutchinson, Kan.	Feb. 19

BUILDINGS

July	5	Camden Point, Mo.	June 24
July	5	Killduff, Ia.	June 24
July	5	Cambria, Ia.	June 17
July	6	Watertown (Boston P. O.), Mass.	July 1
July	7	Gallipolis, O.	June 17
July	7	Warren, O.	June 24
July	7	Uniontown, Pa.	July 1
July	8	McCallsburg, Ia.	July 1
July	9	Collins, Ia.	July 1
July	9	Brookville, O.	July 1
July	12	St. Paul, Minn.	July 1
July	15	Wake Forest, N. C.	July 1
July	15	Jonesboro, Ark.	May 27
July	15	Coleraine, Minn.	June 10
July	15	Wilmington, N. C.	July 1
July	16	Fullerton, Cal.	June 17
July	20	Roselle Park (Elizabeth P. O.), N. J.	July 1
		Adv. June 24 and July 1	
July	25	Liberty Center, Ia.	June 24
Aug.	2	Salina, Kan.	June 17
Aug.	16	Sioux City, Ia.	June 17

FEDERAL GOVERNMENT WORK

July	3	Structural Steel Castings, etc.—Louisville, Ky.	June 10
		Adv. June 17 to July 1.	
July	5	Removing Old Conduit, etc. —Opelousas, La.	July 1
July	7	Incinerator—Spec. 4137— Quantico, Va.	June 24
July	7	Sewers and Watermains — Spec. 4178 — Hampton Roads, Va.	June 24
July	7	Storehouse — Spec. 4157 San Diego, Cal.	June 24
July	8	Charcoal Iron Boiler Tubes Charleston, S. C.	June 3
July	8	Sand, Gravel, Crushed Limestone, etc.—Buffalo, N. Y.	July 1
		Adv. July 1.	
July	8	Steel Dump Scow—Louisville, Ky.	June 10
		Adv. June 17 to July 1.	
July	8	Rubber Hose — Memphis, Tenn.	June 17
July	9	Brick Set, etc.—Athens, O.	June 24
July	12	Additions and Repairs to Conduit, etc.—Zanesville, O.	June 24
July	12	Repairing Asphalt Pavements—Wash., D. C.	July 1
		Adv. June 24 and July 1.	
July	12	Sheet Asphalt Pavements— Wash., D. C.	July 1
		Adv. June 24 and July 1.	
July	14	Seagoing Hopper Dredge Sabine—Galveston, Tex.	June 17
July	14	Steel Hull Derrick Boat— Pittsburgh, Pa.	July 1
		Adv. July 1.	
July	15	Removing Present Conduit, etc.—Cleveland, O.	July 1
July	15	Galvanized Wire, Wire Strand, Staples and Wire Rope Clips — Memphis, Tenn.	June 17
		Adv. June 24 and July 1.	
July	15	Dredging — Wilmington, Del.	June 17
July	15	Gate and Valve Operating Machinery — Pittsburgh, Pa.	June 24
		Adv. June 24 and July 1.	
July	16	Repairing Boiler Plant — St. Louis, Mo.	July 1
July	19	Repairing Breakwater and Placing Rip Rap—Cleveland, O.	July 1
		Adv. July 1.	
July	24	Dredging — New York, N. Y.	June 24
July	30	Widening and Deepening — New Orleans, La.	July 1
		Adv. July 1	

MISCELLANEOUS

July	6	Pipe—Terra Bella, Cal.	June 17
July	6	Pier—Bayfield, Ont.	June 24
July	6	Wharf—Ste. Famille, Que.	June 24
July	7	Culverts—Toronto, Ont.	July 1
July	7	Bleachers—New Bedford, Mass.	July 1
July	8	Bleachers—New Bedford, Mass.	July 1
July	8	Laundry Machinery—Randalls Island, N. Y.	June 10
July	12	Tractors, Elevating Graders and Dump Wagon—Wadena, Minn.	June 17
July	20	Terminal Freighthouse — New York, N. Y.	June 24
		Adv. June 24 and July 1.	
Aug.	7	Pier and Transit Sheds — Vancouver, B. C.	July 1

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Wyo., Evanston—City election July 12 to vote on $290,000 bonds to build complete water-works system. Prince & Nixon, Omaha, Neb., engrs.

Cal., Sacramento—City Comrs. receive bids about Aug. 15, building filtration plant to include intake, pier and conduits, cost $155,000; pumping plant, $275,000; filters, head house and sump, $225,000; filtered water basin, $115,000; coagulating basins, $190,000; coagulating house, $75,000; piping, valves, etc., $70,000; conduits to distributing system, $130,000; roads, lighting, etc., $25,000; outfall, drains, etc., $12,000; miscellaneous, $70,000; land, $126,000; engineering, $130,000 and contingencies, $50,000. M. J. Desmond, city clk.

N. B., St. Andrew—City having plans prepared and soon receives bids building waterworks system. Bonds for $75,000 voted for project.

Ont., London—Cities of London and St. Thomas plan to build 25 mi. pipe line from Lake Erie. About $3,000,000. E. V. Buchanan, c/o Utilities Comn., engr.

BIDS DESIRED

Fla., Okeechobee — See "Streets and Roads."

Minn., Buffalo—Until July 12, by B. A. Bonstrom, city clk., furnishing and laying 7,525 lin.ft. 4-8 in. Class "B" c.i. pipe, 16 hydrants, etc. About $30,000. Noted June 24.

Minn., Pipestone—Until July 15, by S. W. Funk, city clk., improving waterworks system, to include water tower, 150,000 gal. tank, rein.-con. reservoir, with 500,000 gal. capacity and pumping plant. About $50,000. L. P. Wolff, 1009 Guardian Life Bldg., St. Paul, engr.

Utah, Orem (Provo P. O.)—Until July 10, by Town Bd., furnishing labor and materials for building waterworks system, involving 60,000 ft. 8-12 in. wood and 40,000 ft. 2-6

Waterworks (Continued)

in. galvanized iron pipe, 6,000 lin.ft. 4-6 in. tile and 16,000 cu.yd. excav. F. A. Jacobs, Provo, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Mass., Boston — City received bids June 24, building high pressure water system in North, Commercial, Portland, Medford and Friend Sts., from C. and R. Constr. Co., $111,859; J. Barletta, $117,699; V. Grande, $128,483.

N. Y., New York—B. S. Coler, comr. Dept. Pub. Welfare, Municipal Bldg., received lowest 3 bids June 25, furnishing labor and material building and completing water supply system for fire and domestic use for 21 pavilion buildings, group building, dining hall and present nurses home at Seaview Hospital, also sections of new mains at Farm Colony, Richmond Boro., from N. D. Stefano, 257 Glenn Ave., Tompkinsville, $85,950; G. E. Eng. Corp., 22 Laight St., $87,500; Masterson Constr. Corp., 15 East 40th St., $88,700. Noted June 17.

★**Tex., Dallas**—City let contract building dam across Clear Fork of Brazos River, 15 mi. 10 in. c.i. main, distributing system, pumping equipment, stand pipe, etc., to J. W. Moore, Breckenridge, $350,000.

★**O., Cleveland** — City let contract for 228,000 cu.yd. excav. at Baldwin Reservoir to R. E. Carey Co., West 112th St., $312,360. Noted May 13.

★**Wis., North Milwaukee**—City let contract furnishing and laying 6 mi. watermains in various streets, to J. M. Donahue, Normal Ave., Stevens Point, $23,700. Noted June 10.

★**Ont., Milverton**—Town let contract laying 14,500 ft. 4-6 in. c.i. pipe for waterworks system, to Webster Constr. Co., Dominion Savings Bldg., London. Noted June 3.

★**Ont., New Toronto**—See "Streets and Roads."

Sewers

PROPOSED WORK

Pa., Phila.—A. Wagner, act. dir. Pub. Wks., prepared plans for constructing main and branch sewers, part of which are to facilitate and promote housing development. Main sewers, to be an extension of Rock Run Sewer, will extend about 4,400 lin.ft. in portions of 18th St., 66th, 67th and Ogontz Aves. Of the 55 branch sewers to be constructed, 20 will be in streets located in built up sections, covering about 6,758 lin.ft. and remaining 35 in streets in outlying sections.

Fla., West Palm Beach—City voted $115,000 bonds to build sewers.

O., Cleveland—Dunham Co., c/o Wight-O'Rourke Co., engrs., Rose Bldg., soon receives bids building sewers in Dunham Allotment, involving 5,000 ft. 15 in. vitr. pipe. About $25,000.

O., Lorain—West Shore Realty Co., c/o Holland Eng. Co., engrs., B. of L. E. Bldg., Cleveland, soon lets contract building sewer, water main and sewage disposal plant, with 2 septic tanks, in Sandy Beach allotment, involving 1,500 ft. 8-15 in. vitr. and 1,500 ft. 4 in. c.i. pipes. About $35,000.

O., Martins Ferry—City election Nov. 2 to vote on $40,000 bonds to build tile block and rein.-con. sewers in 6th, Hanover and Park Sts., etc. C. P. Lash, Martins Ferry, engr.

Mich., Detroit — City received no bids building Lateral Sewer 3,285 in alley between Beniteau, St. Jean, Canfield and Warren Aves.

Wis., Darlington—City having plans prepared by W. F. Reichard, engr., Watertown, for laying 8-12 in. vitr. sanitary sewers in Minerva and Louisa Sts. About $25,000.

Wis., Lake Mills—City having surveys made by W. G. Kirchoff, engrs., 31 Vroman Blk., Madison, for extending sewerage system above here. About $40,000.

Wis., Milwaukee—City cancelled date of bids for furnishing 2 c.i. syphons under Milwaukee River, new date to be set later. T. C. Hatton, City Hall, engr. Noted June 3.

BIDS DESIRED

N. Y., Long Island City—Until July 3, by M. E. Connolly, pres. Queens Boro., building sewers and appurtenances in Corona Ave. from Alsyne Ave. to Casper St. and from Cobb Pl. to Louona Ave., Merritt Pl. from Corona to Junction Aves., Rust St. from James St. to Flushing Ave., Flushing Ave. from Rust to James Sts., excluding intersection of Broad St., Hebbard Ave. from Flushing to Collins Aves., Mt. Olivet Ave. from Flushing to Collins Aves., Broad St. from Grand to James Sts. and from Hebbard to Mt. Olivet Aves., Beeckman St. from State St. to Mitchell Ave., Maure Ave. from Metropolitan Ave. to Kew Gardens Rd., Hillside Ave. N.S. from Maure Ave. to Cottage St., Cottage St. from Hillside Ave. to Kew Gardens Rd., with temporary connection to Hillside Ave. sewer, Hallett St. from Ditmars to Wolcott Aves., building receiving basins on northwest and northeast corners of Manor Ave. and Avondale St., on easterly and westerly sides of Greenwood Ave., 400 ft. north of Jerome Ave., also building park inlet basin at westerly end of Woodmere Pl.

Fla., Okeechobee — See "Streets and Roads."

Mich., Detroit—Until July 6, by Dept. Pub. Wks., furnishing labor and material (except manhole rings and covers), for building and backfilling following, brick, concrete, segmental block or vitr. crock sewers, 4,848 ft. Springle Ave. Sanitary Sewer in Springle and Kercheval Aves. from Connors to Mack Aves., 20-24 in. crock, etc., cost $35,000; 2,262 ft. John R. St. between Six Mile Rd. and Nevada Ave., 3-4 ft. 6 in. cylinder, etc., $50,000; 2,623 ft. Swift Ave. from Six Mile Rd. to Montana Ave., 4-4½ ft. cylinder, etc., $50,000; 2,742 ft. Puritan Ave. from Parkside to Log Cabin Aves., 3-4 ft. cylinder, etc., $50,000; 2,297 ft. Oakland Ave. from Seven Mile Rd. to Grixdale Ave., 24 in. to 4 ft. cylinder, etc., $40,000.

Mich., Pontiac—Until Aug. 2, by C. W. Hubbell, engr., 2348 Penobscot Bldg., Detroit, constructing sanitary relief sewerage system, involving 12,404 ft. 22-54 in. pipe in open cut and 9,160 ft. 33-48 in. pipe in tunnel, brick, concrete or segmental block. About $550,000. Noted Jan. 8.

Wis., Amery—Until July 12, by C. H. Christenson, city clk., building 11,770 ft. 8-15 in. sanitary sewers, 24 manholes, 4 lampholes, 6 flush tanks, also 1,635 ft. 8-15 in. storm sewers, 322 ft. 8-10 in. inlets and 14 storm inlets. About $37,000. L. P. Wolff, 1000 Guardian Life Bldg., St. Paul, engr.

Tex., Laredo—Until July 6, by City Council, building sewerage system.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—City let contract building Muddy River Conduit in Brookline Ave. from Beacon St. to Audubon Rd., to C. and R. Constr. Co., 72 Pinehurst St., West Roxbury, $280,118. Noted June 10.

★**Mass., Lynn**—City let contract building vitr. pipe sewer in Union St., to A. Bamfaldi, 9 Parker Pl., Somerville, $45,139.

★**N. Y., Long Island City** — M. E. Connolly, pres. Queens Boro., let contract building sewer and appurtenances in Depot Lane from Joslin to Norwood Sts., to Green Contg. Co., 534 Vernon Ave., Brooklyn, $13,510; Ormond St. from Crocheron Ave. to crown about 350 ft. north, to C. Petracca, 3506 Neptune Ave., Brooklyn, $274,685; South St. from Long Island R.R. to Rockaway Turnpike, to N. Lascalzo, $28,161. Noted June 17.

★**N. Y., New York**—H. H. Curran, pres. Manhattan Boro., let contract furnishing labor and material cleaning sewers in various streets, to P. J. Healy, Grand Central Palace, $50,000; also altering and repairing sewer in Murray and other streets, to P. J. Kearns Contg. Co., 2306 Creston Ave., $14,365. Noted June 10.

★**O., Cleveland**—City let contract building sewers in Chestnut Hill Drive from Maplside Rd. to Park Blvd., to Stevens & McKeon, 4208 East 96th St., $4,633; St. Clair Ave. from East 140th to East 152nd Sts., to D. Zulo, 10501 Hudson Ave., $56,716. Noted June 24.

★**O., West Park**—Village let contract building sewer in Nicholas Ave. from West 150th to West 162nd Sts., involving 2,030 ft. 3-6 ft. circle concrete and 2,770 ft. 12-24 in. vitr. pipe, also 5 manholes, to A. Marra, Illuminating Bldg., Cleveland, $47,286. Noted June 24.

Mich., Detroit—City received bids furnishing labor and material (except manhole rings and covers) building and backfilling (a) Lateral Sewer 3,114, Erwin, Rhons, Bessemore and Georgia Aves., (b) 3,173, 12th, Hamilton, Burlingame and Webb Aves., (c) Linwood Ave. Pub. Sewer Sect. 4, in Linwood Ave. from Fenkell to Puritan Aves., (d) Alter Rd. Pub. Sewer in Mack Ave. from Balfour to Bedford Aves., (e) Lycaste Ave. Pub. Sewer in Lycaste Ave. from end of existing sewer to vicinity Edison plant, from W. Blanck & Co., 827 Ford Bldg., (a) $3,996, (b) $26,350, (c) $69,246, (d) $49,272, (e) $116,482; Walker & Teetaert, Grosse Pointe, (a) $4,400; A. H. Haynes, 70 Davenport St., (a) $4,475; Jeynes & Affeld, 1208 Ford Bldg., (c) $68,700, (e) $113,000. Noted June 24.

Wis., North Milwaukee—City received bids June 15, building storm sewers in various streets, involving (a) 7,000 ft. 10 in., (b) 8,000 ft. 12 in., (c) 3,000 ft. 15 in. and (d) 2,000 ft. 18 in. vitr. pipe, (e) manholes, (f) catchbasins, from G. E. Zimmerman, 3102 McKinley Blvd., Milwaukee, (a) $1.00 per ft., (b) $1.45, (c) $1.70, (d) $2.15, (e) $45 each, (f) $45 each; C. Wilson, Appleton, (a) $1.55, (b) $1.75, (c) $1.98, (d) $2.78, (e) $72, (f) $42; J. B. Forrestal Co., 215 15th St., Milwaukee, (a) $1.50, (b) $1.84, (c) $2.15, (d) $2.60, (e) $75, (f) $75. Noted June 10.

★**Tex., Plano**—City let contract laying 28,933 ft. 6-8 in. sewer pipe in various streets, building 31 manholes, 15 clean-outs and 2 sewage disposal plants equipped with chlorinators, to Dalton & Campbell, 1915½ Main St., Dallas, $31,254.

Bridges

PROPOSED WORK

Conn., Stamford—Bd. Selectmen plans to build 102 ft. rein.-con. bridge, 38 ft. wide, on Greenwich Ave. About $40,000. J. G. Moore, chn. Private plans.

N. Y., Mt. Vernon — Bronx Parkway Comn., West Pondfield Rd., Bronxville, received no bids June 17, building rein.-con. and steel driveway bridge, here. About $40,000. Work will be readvertised. Noted May 20.

N. Y., New York—Dept. Plants & Structures, Municipal Bldg., rejected bids received June 15, building Eastchester Bridge over Eastchester Creek. About $500,000. Work will be readvertised. Noted June 24.

Pa., Edwardsville (Kingston P.O.)—City plans to build concrete bridge, piers and abutments, on Lawrence St. About $40,000. Architect not selected.

Md., Baltimore—City soon receives bids building 1,800 ft. rein.-con. bridge over Gwynns Falls, on Windsor Mill Rd., 48 ft. wide. About $70,000. A. E. Christhilf, City Hall, engr.

O., Cleveland—Comrs. Cuyahoga Co. plan to build 10 ft. concrete and steel bridge, 40 ft. wide, over Cuyahoga River, at Alexander's Mills, on Independence-Newburg Rd. About $100,000. W. A. Stinchcombe, co. engr.

O., Gates Mills — Comrs. Cuyahoga Co., Court House, Cleveland, plan to build 100 ft. concrete bridge, 40 ft. wide, over Chagrin River, on Mayfield Rd., here. About $100,000. W. A. Stinchcombe, co. engr.

O., Solon—Comrs. Cuyahoga Co., Court House, Cleveland, plans to build 100 ft. concrete and steel bridge, 40 ft. wide, on road from here to Chagrin Falls. About $100,000. W. A. Stinchcombe, co. engr.

Ill., Chicago—Sanitary Dist. receives bids in August, building 320 ft. double leaf bascule bridge over Drainage Canal, on California Ave., to have 120 ft. clear span, 38 ft. roadway and two 8 ft. sidewalks. About $350,000. E. J. Kelly, ch. engr., C. R. Dart, 910 South Michigan Ave., bridge engr.

Wis., Madison—Dane Co. had plans prepared by State Highway Comn., Madison, for 10 x 20 ft., 10 x 24 ft., 14 x 20 ft. and 16 x 24 ft. rein.-con. bridges, all with concrete abutments. F. M. Lipke, comr.

Wis., Marinette—Marinette Co. had plans prepared by State Highway Comn., Madison, for two 18 x 24 ft., one 8 x 20 ft. and one 20 x 30 ft. rein.-con. bridges, concrete abutments, also one 5 x 8 ft. rein.-con. box culvert. A. Eklund, Peshtigo, comr.

Missouri—See "Streets and Roads."

Mo., St. Louis—City having plans prepared for 750 ft. concrete viaduct, 60 ft. wide, over St. Louis Terminal and Missouri Pacific R.R. tracks, on 14th St. Cost between $300,000 and $400,000. L. R. Brown, City Hall, engr.

Tex., Dallas—Dallas Co. rejected bids received June 10, building bridges and drainage structures on Dallas-Scyene Rd. About $60,000. Project temporarily abandoned. W. J. Powell, co. engr.

Tex., Livingston—Polk Co. rejected bids received June 21, building 2 steel span bridges on Highway 35, involving 1,627.5 cu.yd. dry and 1,004.5 cu.yd. wet structural excav., 811 cu.yd. Class "A" and 522 cu.yd. Class "B" concrete, 91,800 lb. reinforcing and 23,470 lb. structural steel. About $87,000; including 10% for engineering and contingencies. W. C. Youngs, Livingston, engr.

Ariz., Florence — Pinal Co. Highway Comn. rejected bids received June 7 building two 140 ft. single span bridges over Mineral Creek, on Ray-Kelvin Highway. Noted May 13.

Cal., San Miguel—Bd. Supervs. San Luis Obispo Co., San Luis Obispo, rejected bids building rein.-con bridge with nine 90 ft. spans, over Salinas River, near here. About $115,000. Work will be readvertised. Noted June 3.

Bridges—(Continued)

Ont., Hamilton—Dept. Pub. Wks. Ottawa, soon receives bids building steel bridge over Burlington Channel, to connect Lake Ontario with Hamilton Harbor. About $100,000.

BIDS DESIRED

Del., Frederica—Until July 21, by State Highway Dept., Dover, building Murderkill River Bridge, involving 420 cu.yd. wet excav., 600 cu.yd. Class A concrete, 25,000 lb. reinforcement, etc.; Spring Creek Bridge, 210 cu.yd. wet excav., 220 cu.yd. Class A concrete, 13,000 lb. reinforcement, etc., Contr. 24-A. C. M. Upham, ch. engr.; advertised in this issue.

Va., St. Clair—Until July 8, by G. P. Coleman, state highway comr., Richmond, building 60 ft. bridge, 16 ft. roadway, over Bluestone River, on Norfolk & Western Ry., 2 mi. from here, steel truss superstructure and plain concrete substructure.

Ohio—See "Streets and Roads."

Illinois—Until July 7, by Dept. Pub. Wks. & Bldgs., Springfield, building 1 steel and 4 concrete bridges, Sects. 24 and 25 B, Vandalia-Cairo Highway, Project 14, Fayette Co., involving 701.3 cu.yd. concrete; 1 steel and 6 concrete bridges, Sects. 26, 27, 28 and 29 B, Marion Co., 178.05 cu.yd. concrete; 4 concrete bridges, Sect. 30 B, Marion and Washington Counties, 389 cu. yd. concrete; 5 concrete bridges, Sects. 31, 32 and 33 B, Washington Co., 6,314 cu.yd. concrete and 1 steel bridge, Sect. 2 B, Jackson Co., 1,100 cu.yd. concrete.

Wisconsin—See "Streets and Roads."

Missouri—Until July 9, by State Highway Bd., Monticello, building Rodefer Bridge, on La Belle-Lewistown Rd., Federal Aid Project 68, Lewis Co., rein.-con. superstructure with 1 concrete pier on 2 concrete abutments, 18 ft. clear roadway, involving 3.3 cu.yd. Class "A," 38.5 cu.yd. Class "B" and 68.5 cu.yd. Class "C" concrete, 4,600 lb. reinforcing steel, cost $2,934; one 20 ft. rein.-con. slab bridge, 18 ft. clear roadway, on 2 concrete abutments, 2.1 cu.yd. Class "A," 29.3 cu.yd. Class "B" and 41 cu.yd. Class "C" concrete, 3,307 lb. reinforcing steel, $2,004; 1 span rein.-con. deck girder superstructure, 18 ft. clear roadway, on 2 rein.-con. abutments, 2.6 cu. yd. Class "A" and 105.4 cu.yd. Class "B" concrete, 9,510 lb. reinforcing steel, $3,526; one 20 ft. rein.con. slab bridge, 18 ft. clear roadway, on 2 concrete abutments, 12.1 cu. yd. Class "A," 29.3 cu.yd. Class "B" and 18.4 cu.yd. Class "C" concrete, 3,160 lb. reinforcing steel, $1,495; one 14 ft. rein.-con. skew slab bridge, 18 ft. clear roadway, on 2 concrete abutments, 1.7 cu.yd. Class "A," 16.8 cu.yd. Class "B" and 40 cu.yd. Class "C" concrete, 2,130 lb. reinforcing steel, $1,709; 77th St. rein.-con. bridge, over Canton Drainage Ditch, in Canton, to have one 30 ft. span and 18 ft. clear roadway, 7.6 cu.yd. Class "A," 299.9 Class "B" concrete, 27,580 lb. reinforcing steel, 810 lin.ft. creosoted wooden piling, $11,501; Balschlett Bridge over Wyaconda River, to have one 85 ft. steel pony truss and three 30 ft. rein.-con. deck girder spans, 3 rein.-con. bents on 1 rein.-con abutment, 18 ft. clear roadway, including capping old pier with concrete and constructing temporary bridge, 62.2 cu.yd. Class "A" and 208.9 cu.yd. Class "B" concrete, 35,560 lb. reinforcing and 45,200 lb. fabricated structural steel, 361 lin.ft. 2 in. gas pipe, $15,134, all on Canton-La Grange Rd., Federal Aid Project 38.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Mass., Wareham—Dept. Pub. Wks., Div. of Highways, and Cohasset Narrows Bridge Comn., at office of Dept. Pub. Wks., State House, Boston, let contract building bridge over Cohasset Narrows between here and Bourne Twps., involving 12,000 gal. bituminous material, 900 ton broken stone, etc., to Holbrook, Cabot & Rollins Corp., 6 Beacon St., Boston, $247,970. Noted June 10.

★N. Y., Scarsdale—Bronx Parkway Comn., West Pondfield Rd., Bronxville, let contract building 2 rein.-con. and steel driveway bridges here, to Failac Bros., 7 East 42nd St., New York City, $53,550. Noted May 20.

★Pa., Wilkes-Barre—Luzerne Co. let contracts to R. Hand, South Main St., building 2 rein.-con. bridges, one in Exeter Twp., other on Sullivan Trail, $15,550 and $13,500 respectively.

★W. Va., Beckley—Raleigh Co. let contract building 2 bridges in Marsh Fork Dist., involving 144 cu.yd. earth approach and fill, 200 cu.yd. excav., 292.8 cu.yd. Class "A" and 491 cu.yd. Class "B" concrete, 50,235 lb. steel, to Concrete Steel Bridge Co., Clarksburg, $30,046.

★Ind., Terre Haute—See "Streets and Roads."

★Illinois—Dept. Pub. Wks. and Bldgs., Springfield, let contracts building concrete bridge, Project 11, Sect. S, Vermilion Co., to Love-Richards Co., Hoopeston, Ill., $23,515; 4 concrete bridges, Project 1, Sect. 24, Whiteside Co., and 1 concrete bridge, Project 1, Sect. 25, Ogle Co., to Oltendorf Constr. Co., Palatine, Ill., $33,580 and $5,024 respectively. Noted June 3.

★Wis., Milwaukee—City will reconstruct 27th St. Viaduct by day labor. Bids will soon be received for furnishing 700,000 ft. lumber and timbers, 10 ton castings, 125 ton structural steel, 19,000 lb. bolts, nuts, washers and 8,950 sq.yd. creosoted blocks.

★Ia., Corning—Adams Co. let contract building forty concrete box culverts, 2 x 2 ft.—8 x 8 ft., one 20 x 24 ft. concrete slab bridge and one 20 x 90 ft. steel pony truss bridge, all on Federal Aid Project No. 26, involving 1,633 cu.yd. rein.-con., 87 tons steel and 178 lin.ft. wood piling, to Wicks Eng. & Constr. Co., Observatory Bldg., Des Moines. About, $70,000.

★Oklahoma—State Bd. Affairs, Oklahoma, let contract building 40 ft. span concrete bridge, over Cimarron River, in Woods Co., to Boardman Co., West Maple St., Oklahoma. About $138,000.

Streets and Roads

PROPOSED WORK

New Hampshire—State Highway Comn., Concord, rejected only bid received June 2, building 3.6 mi. gravel highway, Tuftonboro. About $40,000. F. E. Everett, comr. Noted June 24.

Mass., Northampton—City appropriated $86,000 bonds to improve Main, Leeds and Prospect Sts., asphalt and concrete.

R. I., Scituate (North Scituate P. O.)—Water Supply Bd., Providence, plans to build 1.75 mi. earth highway, here. About $75,000.

N. Y., Buffalo—City plans to repave 1,241 ft. Warwick Ave. from Grider St. to Wyoming Ave., 26 ft. wide, involving 3,604 sq.yd. asphalt, 2,402 lin.ft. Medina curbing, etc.; 1,802 ft. Hampshire St. from Niagara St. to Normal Ave., 30 wide, 5,695 sq.yd. asphalt, 1,588 lin.ft. Medina curbing, 1,080 sq.ft. concrete sidewalk, etc.; 281 ft. Spring St. from Genessee to Cherry Sts., 32 ft. wide, 1,009 sq.yd. asphalt, 365 lin.ft. Medina curbing, 246 sq.ft. concrete sidewalk, etc.; 494 ft. Ryan St., 26 ft. wide, 1,432 sq.yd. asphalt, 968 lin. ft. Medina curbing, 99 sq. ft. concrete sidewalk, etc.; 2,898 ft. 14th St. from Porter Ave. to Rhode Island St., 30 ft. wide, 6,790 sq.yd. asphalt, 2,795 lin.ft. Medina curbing, 1,600 sq.ft. concrete sidewalk, etc.; 6,360 ft. Howard St. from Jefferson to Babcock Sts., 28 ft. wide, 19,806 sq.yd. asphalt, 6,866 lin.ft. Medina curbing, 3,510 sq.ft. concrete sidewalk, etc.; 4,440 ft. Bailey Ave. from Bway. to Genesee St., 40 ft. wide, 19,746 sq.yd. asphalt, 1,259 lin. ft. Medina curbing, 1,514 sq.ft. concrete sidewalk, etc.; 895 ft. Dewitt St. from Forest Ave. to Fernwood Pl., 30 ft. wide, 2,988 sq.yd. asphalt, 870 lin.ft. Medina curbing, 450 sq.ft. concrete sidewalk, etc.; 928 ft. Franklin St., 32 ft. wide, 2,139 sq.yd. stone block, 1,166 sq.yd. asphalt, 1,836 lin.ft. Medina curbing, 560 sq.yd., concrete sidewalk, etc.; 622 ft. Maywood Pl. from Beyer to Seneca Sts., 24 ft. wide, 1,812 sq.yd. asphalt, 1,238 lin.ft. Medina curbing, etc.; 567 ft. Cypress St. from Michigan Ave. to Pine St., 30 ft. wide, 1,900 sq.yd. asphalt, 766 lin.ft. Medina curbing, 384 sq.ft. concrete sidewalk, etc.; 1,593 ft. Maryland St. from Niagara St. to Erie Canal, 30 and 42 ft. wide, 5,758 sq.yd. asphalt, 2,366 lin.ft. Medina curbing, 275 sq.ft. concrete sidewalk, etc. G. H. Norton, city engr.

Pa., Scranton—City passed ordinance to grade, pave and curb Saunders St., Pittston and Birney Aves., sheet asphalt and stone block on concrete base. About $106,226. W. F. Huester, clk.

Delaware—State Highway Dept., Dover, soon receives bids building 40 mi. road, 16 ft. wide, penetrated macadam and macadam with asphalt surface. C. M. Upham, ch. engr.

Md., Frederick—Comrs. Frederick Co. plan to improve 5 mi. road between Wolfsville and Myersville.

W. Va., Lewisburg—Greenbrier Co. rejected bids received June 1, grading and paving 2 mi. James River and Kanawha Turnpike, vitr. brick. Noted May 27.

W. Va., Middlebourne—Tyler Co. rejected bids received June 14, concrete surfacing 1.2 mi. Middlebourne-Salem Pike, 16 ft. wide, Federal Aid Project 55. Noted May 27.

N. C., Winston-Salem—Forsyth Co. plans to build 6 mi. Styers Ferry Rd. About $30,000.

S. C., Columbia—Richland Co. plans to hard surface Two Notch Rd. About $450,000. J. R. Pennell, co. engr.

Tenn., Lexington—Henderson Co. voted $350,000 bonds to build roads.

O., Dayton—Montgomery Co. plans to pave 1.2 mi. Bessie Little Rd. from corporation line to Troy Pike, 20 ft. wide, involving 13,500 sq.yd. vitr. brick or concrete. About $65,000. P. S. Bookwalter, co. surv.

Mich., Detroit—City will prepare plans and estimates for grading and paving with 1 course concrete with 2 x 6 in. plank retainers along sides, Medina stone headers, etc., alley between Antoine, Hastings, Palmer and Hendrie Sts.; alley between Belleview, Concord, Lafayette and St. Paul Sts.; alley between Belvidere, Pennsylvania, Mack and Sylvester Aves.; alley between Beechwood, Grand River, Linsdale and Edmonton Aves.; alley between Byron, Hamilton, Edison and Longfellow Aves.; alley between Concord, Canton, Waterloo and Charlevoix Aves.; alley between Coplin, Freud and Jefferson Ave. and Piper Blvd.; alley between Chene, Jos. Campeau, Catherine and Mullett Aves.; alley between Dubois, Chene, Hancock and Warren Aves.; alley between Elmwood, Ellery, Benson and Heidelberg Aves.; alley between 18th, 17th, Howard and Porter Sts.; alley between 14th, Wabash, Forest and Hancock Sts.; alley between 14th and 12th Sts., Virginia Park and Euclid Ave.; alley between 14th St., Wabash, Marquette and Ferry Park Aves.; alley between Goodwin, Cameron, Owen and Westminster Aves.; alley between Green, Beard and Fort Sts. and Lafayette Blvd.; alley between Garland, St. Clair, Mack and Canfield Aves. C. W. Hubbell, city engr.

Mich., Detroit—Dept. Pub. Wks. receives bids about July 8, grading, shaping and paving with sheet asphalt on 8 in. concrete foundation, Amherst or Medina curbstone, Philip Ave. from Kercheval to Mack Aves., cost $63,220; Gray Ave. from Kercheval to Charlevoix Aves., $34,850; Oakdale Ave. from Mandale to Woodmere Aves., $38,920; Chalmers Ave. from Charlevoix to Mack Aves., $31,260; Conger Ave. from Baldwin to Maxwell Aves., $30,420; Caroline Ave. from 12th St. to Vermont Ave., $8,220, all 26 ft. wide; grading and paving with 1 course concrete, 2 x 6 in. retaining plank sides, stone headers, etc., alley between Duboise St., Kirby and Ferry Aves., 17 ft. wide, $2,880; alley between Coplin, Freud and Jefferson Aves. and Piper Blvd., 18 ft. wide, $8,420; alley between Northfield, Ironwood, Vancouver and Ivanhoe Aves., 18 ft. wide, $8,390; alley between Hanover, Dunedin and Lothrop Sts. and La Salle Gardens, S., 20 ft. wide, $7,520. C. W. Hubbell, city engr.

Ia., Osceola—City rejected bids received June 10, improving various streets. W. W. Temple, city clk. E. T. Archer, New England Bldg., Kansas City, Mo., engrs. Noted June 3.

South Dakota—State Highway Comn., Pierre, will receive bids in 1 or 2 months, grading and draining 16.45 mi. Mound City-Leola-Ipswich Highway, 36 ft. wide. McPherson Co., involving 74,000 cu.yd. excav., 650 lin.ft. concrete for corrugated culverts, 650 cu.yd. concrete and 49,000 lb. steel reinforcing for culverts. About $79,300. F. S. Peck, state highway engr.

South Dakota—State Highway Comn., Pierre, received no bids April 9, graveling, grading and draining 10.88 mi. Redfield-Watertown Rd., 24 ft. wide, Federal Aid Project 34, Spink Co. F. S. Peck, state highway engr. Noted Mar. 25.

Missouri—State Highway Dept., Jefferson City, plans to build 15.86 mi. Rolla-Houston Rd., 24 ft. wide, Federal Aid Project 110, Phelps Co., involving 1,000 cu.yd. rock and 63,000 cu.yd. earth excav., 3 acres clearing and grubbing, 22,017 sq.yd. 4 in. gravel surfacing, 1,000 sq.yd. broken stone base course, 62,000 sq.yd. 9 in. gravel surfacing, 200 lin.ft. stone underdrain, 350 cu.yd. rip rap, one 80 ft. span rein.-con. bridge, 40 corrugated iron pipe, 4 rein.-con. culverts and 11 extensions to culverts; 7.45 mi. East and West Rd., 24 ft. wide, Federal Aid Project 116, Grundy Co., 150,000 cu.yd. earth excav., 3% rock, 5,000 lin.ft. guard rail, one 250 ft. and two 100 ft. bridges with one 500 ft., two 50 ft., and one 100 ft. concrete pile trestles, 17 corrugated iron pipe and 2 rein.-con. culverts, extensions to 2 rein.-con. culverts; 8 mi. Springfield-Monett Rd. (Buck Prairie Special Rd. Dist.), 24 ft. wide, Federal Aid Project 114, Lawrence Co., 10,152 cu.yd. earth excav., 25,000 lin.ft. grading, 28,000 sq.yd. 5 in. gravel or chat surfacing, 16 ft. wide, 1 rein.-con. bridge having 2 spans and 7 culverts; 3.6 mi. Southern Highway (Smithton Special Rd. Dist.), 24 ft. wide, Federal Aid Project 113, Pettis Co., 8,152 cu.yd. earth excav., 15,957 sq.yd. 2 course gravel surfacing, 17,836 sq.yd. gravel resurfacing and 10 rein.-con. culverts; 8.3 mi. Sedalia-Springfield Rd. (Urbana Special Rd. Dist.), 24 ft. wide, Federal Aid Project 112, Dallas Co., 12,250 cu.yd. rock and 17,230 cu.yd.

Streets and Roads (Continued)

earth excav., 44,100 sq.yd. 10 in. gravel surfacing, 9 ft. wide, and 25 culverts; 16.3 mi. Sedalia-Springfield Rd., 24 ft. wide, Federal Aid Project 115, Dallas Co., 850 cu.yd. rock and 13,382 cu.yd. earth excav., 7,150 lin.ft. grading, 86,050 sq.yd. gravel surfacing, one 30 ft. span rein.-con. bridge and 15 rein.-con. culverts; 6.48 mi. Clinton-Osceola Rd., 24 ft. wide, Federal Aid Project 117, Henry Co., 24,000 cu.yd. earth excav., 60,800 sq.yd. Joplin chats surfacing, one 60 ft. span rein.-con. bridge, 9 rein.-con. culverts, one I beam bridge and 16 ft. span extension to one I beam bridge; 10.7 mi. Ava-Gainesville-West Plaines Rd., 24 ft. wide, Federal Aid Project 111, Ozark Co., 99,588 cu.yd. earth and 3,000 cu.yd. rock, excav., 43,384 sq.yd. gravel surfacing, 262.5 cu.yd. cement concrete, 600 cu.yd. cement rubble masonry, one 30 ft. span rein.-con. and one 100 ft. steel span bridges, 53 corrugated iron and 19 rein.-con. culverts.

Missouri—State Highway Dept., Jefferson City, plans to build 4.75 mi. Sedalia-Marshall Rd. (Sedalia 12 mi. Special Rd. Dist.), 24 ft. wide, Federal Aid Project 122, Pettis Co., involving 15,000 cu.yd. earth excav., 41,675 sq.yd. macadam resurfacing, 1,000 cu.yd. stone for base course and 6 rein.-con. culverts; 22.2 mi. Jefferson Highway (Jefferson Highway Special Rd. Dist.), 24 ft. wide, Federal Aid Project 130, Harrison Co., 24,500 cu.yd. excav., 2 per cent rock, 109 culverts, 5,000 lin.ft. guard rail, 5,000 lin.ft. underdrain and one 150 ft. steel span bridge with two 25 ft. concrete slab approaches; 31 mi. Piedmont-Marble Hill Rd., 24 ft. wide, Federal Aid Project 129, Wayne Co., 131,500 cu.yd. excav., 5 per cent rock, 88,640 sq.yd. 5-in. gravel surfacing, one 100 ft. and one 60 ft. steel bridges; 8 mi. Clinton-Warrensburg Rd. (Special Rd. Dist. 1 of Shawnee Twp.), 24 ft. wide, Federal Aid Project 128, Henry Co., 40,000 cu.yd. earth excav., 2½ per cent rock, 1,000 cu.yd. rock excav., 10 rein.-con. culverts and extensions to 12 culverts; 6.6 Clinton-Warrensburg Rd. (Special Rd. Dist. 1 of Fields Creek Twp.), 24 ft. wide, Federal Aid Project 127, Henry Co., 20,000 cu.yd. excav., 1 per cent rock, 61,952 sq.yd. joplin chats surfacing, 200 cu.yd. rock excav., 23 rein.-con. culverts, extension to 1 culvert and one 30 ft. and one 20 ft. rein.-con. bridges; 8.88 mi. Gallatin-Jamesport Rd. (Gallatin-Jamesport Special Rd. Dist.), 24 ft. wide, Federal Aid Project 125, Daviess Co., 81,265 cu.yd. earth excav., 1,900 lin.ft. wooden guard rail, 800 lin.ft. drainage ditch, culverts and 4 bridges; 9.9 mi. Monett-Neosho Rd. (Monett Special Rd. Dist.), 24 ft. wide, Federal Aid Project 121, Barry Co., 1,000 cu.yd. rock and 41,000 cu.yd. earth excav., 51,744 sq.yd. waterbound macadam, 96 lin.ft. 18-24 in. vitr. pipe, and 44 rein.-con. culverts; 5.5 mi. Cassville Rd. (Flatcreek Twp. Special Rd. Dist.), 24 ft. wide, Federal Aid Project 124, Barry Co., 16,500 cu.yd. earth excav., 51,380 sq.yd. gravel surfacing, three 20 x 18 ft. rein.-con. bridges and 14 culverts; 5.14 mi. St. Joseph-Savannah Rd., 24 ft. wide, Federal Aid Project 123, Andrew Co., 1,200 cu.yd. rock excav., 5,400 sq.yd. bituminous macadam resurfacing and widening 1 bridge; 3.5 mi. Cairo-Poplar Bluff Rd., 24 ft. wide, Federal Aid Project 120, New Madrid Co., 10,500 cu.yd. earth excav., 32,854 sq.yd. novaculite surfacing, three 40 ft. rein.-con. and one 50 ft. steel bridges; 18.75 mi. Iberia-Eldon and Springfield-Jefferson City Rds. (Osage Valley Special Rd. Dist.), 24 ft. wide, Miller Co., 67,200 cu.yd. excav., 3 per cent rock, 1,344 cu.yd. rock excav., 175,810 sq.yd. gravel surfacing, one 138 ft., one 30 ft., one 22 ft. and three 20 ft. rein.-con. bridges and 90 culverts; 15 mi. Essex-Sikeston Rd., 24 ft. wide, Federal Aid Project 118, Stoddard Co., 45,000 cu.yd. earth excav., 79,200 sq.yd. gravel surfacing, one 36 ft. rein.-con. bridge and 13 rein.-con. culverts.

Tex., Dallas—Property owners of Highland Park plan to pave all streets. About $500,000. H. R. Davis, Highland Park, mayor.

Tex., Midland—Midland Co. voted $125,000 bonds to build Highway 1. Total cost, $242,000. State Highway Dept. recently granted $117,000 Federal Aid funds to help finance above project. J. W. DeArmond, co. judge.

Okla., Mangum—Bd. City Comrs. having plans prepared paving Dist. 2. About $75,000. Johnson & Benham, Firestone Bldg., Kansas City, Mo., engrs.

Utah, Provo—City plans to pave 9,000 ft. Center St. from 5th West to 12th West Sts., 12 ft. wide, 7 in. concrete. About $35,000. C. A. Swan, Provo, engr.

Cal., San Luis Obispo—Bd. Supervs. San Luis Obispo Co., rejected bids grading, draining and paving Sect. A, Santa Margarita-Poso Rd., 4 in. concrete. Work will be readvertised. About $113,392. N. G. Burch, co. engr.

Que., St. Michel—City voted $300,000 bonds to pave and build sidewalks. J. E. C. Daoust, 2326 Park Ave., Montreal, engr.

Ontario—Provincial Government, Toronto, having plans prepared and soon receives bids building 6 mi. concrete sidewalks on Atlas, Barrie, Cedarvale, Delaware, Eastdale, Eglington, Lauder and Oakwood Aves., Burton and Pinewood Rds. and Doncliffe Drive, York Twp. About $39,000. F. Barber, 40 Jarvis St., Toronto, engr.

Ont., Hamilton—City plans to pave 2 mi. various streets, involving 3,000 sq.yd vitr. brick and 40,000 sq.yd. asphalt on concrete base, 5,000 lin.ft. concrete sidewalks, etc. About $145,000. E. R. Gray, city engr.

Ont., Stratford—City plans to resurface 3 mi. various streets, involving 35,000 sq. yd. asphalt. About $58,000. A. B. Manson, City Hall, engr.

Ont., Toronto—City plans to widen ½ mi. Bloor St. E. from Yonge to Sherbourne Sts., 66-86 ft. wide. Cost between $300,000 and $400,000. R. C. Harris, city engr.

BIDS DESIRED

Massachusetts—Until July 6, by State Highway Comn., building 3,300 ft. state highway, Leicester, and 5,340 ft., East Brookfield, concrete.

N. Y., Carthage—Until July 6, by Bd. Trustees, improving various streets, involving 30,000 sq.ft. bituminous macadam and 18,000 lin.ft. combined curb and gutter. A. C. Brady, village clk.

N. Y., Glens Falls—Until July 7, by M. G. Mullen, city clk., paving various streets with concrete and Hillside Mack block; advertised in this issue.

N. Y., New York—Until July 6, by H. H. Curran, pres. Manhattan Boro., regulating and repaving with 3 in. asphalt block on concrete foundation, roadway of East 97th St. from 2nd to 3rd Aves., Mt. Morris Park, W. from 120th to 124th Sts. and 124th St. from Mt. Morris Park W. to 5th Ave., 179th St. from Amsterdam Ave. to Bway., 182nd St. from Amsterdam Ave. to Bway., Dyckman St. from Bway. to Nagle Ave., with sheet asphalt on concrete foundation, Mt. Morris Park, W. from 120th to 124th Sts., 124th St. from Mt. Morris Park W. to 5th Ave., Dyckman St. from Bway. to Nagle Ave., with 3 in. asphaltic concrete on concrete foundation, East 97th St. from 2nd to 3rd Aves., Mt. Morris Park West from 120th to 124th Sts., 124th St. from Mt. Morris Park W. to 5th Ave., 179th St. from Amsterdam Ave. to Bway., 182nd St. from Amsterdam Ave. to Bway., Dyckman St. from Bway. to Nagle Ave.

N. Y., S. I., St. George—Until July 8, by C. D. Van Name, pres. Richmond Boro., furnishing and applying 23,000 gal. bituminous material on Southfield Blvd. between Hillside and Richmond Aves., 9,700 gal. on Morningstar Rd. between Richmond Ave. and Prospect St., 3,000 gal. on Division St. between Van Pelt and Simonson Aves., also furnishing and delivering 345 tons natural lake asphalt, 1,680 cu.yd. ⅜ in. broken stone, 265 ton limestone dust, 325 cu.yd. cowbay sand, 300 cu.yd. 1½ in. broken stone, 125 cu.yd. screenings, 150 cu.yd. ¾ in. broken stone of trap rock, Dist. 1, 200 cu.yd. 1½ in. broken stone, 100 cu.yd. screenings, 75 cu.yd. ¾ in. broken stone of trap rock, Dist. 2, 350 cu.yd. grits, Dist. 1, 200 cu.yd., Dist. 2, 600 cu.yd. Dist. 3.

Maryland—Until July 7, by State Rds. Comn., 601 Garrett Bldg., Baltimore, building 0.77 mi. state highway through town of Manchester, concrete. Carroll Co., Contr. CL-24. J. N. Mackall, chn.; advertised in this issue.

W. Va., Charleston—Until July 16, by F. A. McCrew, city clk., paving 31 blocks on various streets, 40 ft. wide, involving 18,000 sq.yd. brick, asphalt, concrete, asphaltic concrete or shell concrete, cost $140,000; tearing up brick and laying 2,200 sq.yd. sheet asphalt or wood block on Virginia St., 40 ft. wide, $18,000.

W. Va., Moundsville—Until July 20, by Marshall Co., grading, draining and hard surfacing 0.7 mi. Green Valley Rd., brick, concrete, Natl. pavement, asphalt, bituminous macadam, penetration method; also grading, building bridges and culverts on 3 mi. road from Cameron to Poplar Springs Cameron Dist. J. E. Chase, clk. Noted May 27.

North Carolina—Until July 9, by State Highway Comn., at div. office, Kingston, grading and surfacing 26.11 mi. North Carolina Federal Aid Project 81, Pender Co., including construction of necessary bridges. About $100,000. W. S. Fallis, Raleigh, engr.

North Carolina—Until July 7, by State Highway Comn., Asheville, grading and surfacing 5 mi. Transylvania-Franklin Rd., Swain Co. About $50,000. W. S. Fallis, Raleigh, engr.

North Carolina—Until July 7, by State Highway Comn., Asheville, grading, surfacing top soil road and building bridges on 5 mi. Federal Aid Project 97A, Macon Co.; 10 mi. Federal Aid Project 78A, Rutherford Co., and 3.58 mi. Federal Aid Project 109, Burke Co. About $40,000, $50,000 and $25,000 respectively. W. S. Fallis, state highway engr.

S. C., Columbia—Until July 6, by F. C. Wyse, city engr., grading, curbing and draining North Main St. About $25,000. Noted June 10.

S. C., Kinkstree—Until July 7, by Comrs. Williamsburg Co., grading, surfacing sand clay road and building bridges on 8.5 mi. Federal Aid Project 80. About $50,000. J. M. Martin, co. engr. Noted April 15.

Fla., Okeechobee—Until July 19, by City Council, hard surfacing 10 mi. streets, also building waterworks and sewerage systems. D. R. McNeill, pres.; advertised in this issue.

La., Crowley—Until July 24, by Bd. Supervs. Acadia Parish Rd. Dist. 4, building 25 mi. of Divisions A, B, D, F and G sand-clay-gravel. R. L. Doucet, secy.; advertised in this issue.

Tennessee—Until July 16, by State Highway Dept., Nashville, building 14.322 mi. State Highway 8, between Jamestown, Fentress Co. and Pickett Co. Line, involving 59,717 cu.yd. common excav., 16,816 cu.yd. solid rock excav., 9,418 cu.yd. borrow, 62,976 sq.yd. broken stone base course A, 62,976 sq.yd. waterbound macadam surface course, 14.76 cu.yd. special concrete, 209.19 cu.yd. Class "A" concrete, 112.83 cu.yd. Class "B" concrete, 29,816 lb. deformed steel bars, furnishing and placing 880 lin.ft., 15-24 in. c.m. pipe, 785 lin.ft. plain cement concrete curbing, 71,467 sq.yd. 6 in. telford base, 71,467 sq.yd. 4 in. waterbound macadam surface course, removing, cleaning and relaying 2,116 lin.ft. 15-24 in. c.m. pipe, removing, cleaning, transporting and relaying 188 lin.ft. 15-24 in. c.m. pipe, 183.19 cu.yd. Class "B" concrete, pipe culvert, 14.05 cu.yd. Class "A" concrete, and 110 lin.ft. removing superstructures; 19,086 mi. State Highway 32, between Pulaski, Giles Co. and Alabama State Line, 72,696 cu.yd. common excav., 20,414 cu.yd. solid rock excav., 3,252 cu.yd. borrow, 5,333 sq.yd. reconstructed base course, 168,188 sq.yd. broken stone base course "A," 5,333 sq.yd. broken stone base course "B," 173,521 sq.yd. bituminous macadam penetration or rock asphalt surface course, 30.56 cu.yd. special concrete, 701.50 cu.yd. Class "A" concrete, 242.12 cu.yd. Class "B" concrete, 65,187 lb. deformed steel bars, furnishing and placing 1,116 lin. ft. 18-24 in. pipe, 10,168 cu.yd. overhaul, 70.84 cu.yd. Class "B" concrete pipe, 136 lin.ft. removing wooden bridge superstructure, also building bridges, involving 271 cu. yd. dry and 47 cu.yd. wet excav., 41.32 cu.yd. special concrete, 298.05 cu.yd. Class "A" and 541.61 cu.yd. Class "B" concrete, 64,962 lb. deformed steel bars, and 224 lin.ft. removing bridge structures; 14.51 mi. State Highway 2, between Bradley Co. Line and Athens, McMinn Co., 46,403 cu.yd. common excav., 95 cu.yd. solid rock excav., 8,548 cu.yd. borrow, 16.87 cu.yd. special concrete, 417.95 cu.yd. Class "A" concrete, 118.32 cu. yd. Class "B" concrete, 50,604 lb. deformed steel bars, furnishing and placing 1,080 lin. ft. 12-24 in. pipe, furnishing and placing 16 lin.ft. 30 in. c.m. pipe, 88 lin.ft. concrete pipe, 9,592 cu.yd. overhaul, removing, cleaning and relaying 274 lin.ft. concrete pipe, 72 lin.ft. 30 in. c.m. pipe, removing 542 lin.ft. 12-24 in. v.c. pipe, 107.84 cu.yd. Class "B" concrete, (pipe culvert), 74.03 cu.yd. Class "A" concrete, 28.46 cu.yd. Class "B" concrete, 136,193 sq.yd. broken stone base course "A" and 136,193 sq.yd. bituminous macadam penetration, or rock asphalt surface course or 136,193 sq.yd. cement concrete paveemnt.

Ohio—Until July 25 by State Highway Dept., Columbus, building 8 mi. of State Highway, including bridges and culverts, in Clinton Co. About $160,000.

O., Bucyrus—Until July 6, by Dir. Pub. Serv., improving Lane St. from Mary to Plymouth Sts., also East St. from Oakwood Ave. to Charlotte St., brick, asphalt, concrete and asphalt block. A. Broemel, clk.

O., Silver Lake (Cuyahoga Falls P. O.)—Until July 19, by E. A. Tewksbury, clk., grading, draining and paving Silver Lake Blvd., brick block. C. U. Courtney, 509 Leader News Bldg., Cleveland, engr.

Indiana—By Bd. Co. Comrs. building roads in following counties:

July 6, Whitley Co., Columbia City, 10,600 ft. Shafer Hufty Rd., Etna Twp., gravel; 15,820 ft. J. Lewis Rd., Smith Twp., gravel. W. K. Burwell, aud.

Harrison Co., Corydon, 17,638 ft. J. Alstot Rd., Jackson Twp., gravel; 12,859 ft. H. N. Fessel Rd., Morgan Twp., stone. S. C. Mauck, aud.

Streets and Roads (Continued)

Rush Co., Rushville, 9,149 ft. W. M. Powell et al Rd., Jackson Twp., gravel; 10,185 ft. W. T. Moon et al Rd., Richland Twp., macadam. W. M. McMillan, aud.

Howard Co., Kokomo, 2,650 ft. H. P. Brubaker et al Rd., Honey Creek Twp., concrete; 2,325 ft. C. W. Cramer et al Rd., Liberty Twp., stone; 11,000 ft. W. N. Turner et al Rd., Howard Twp., gravel. W. L. Benson, aud.

Hancock Co., Greenfield, 13,360 ft. J. Briney Rd., Center Twp., gravel; 14,600 ft. W. F. Kleiman Rd., Buck Creek Twp., gravel. E. A. Cooper, aud.

July 7. Bartholomew Co., Columbus, 4,045 ft. Narsom Rd., Sandcreek Twp., gravel; 2½ mi. Foerster Rd., Columbus, Ohio, Wayne and Harrison Twps., gravel; 13,503 ft. Stewart Rd., Rockcreek and Sandcreek Twps., stone. R. Henderson, aud.

Shelby Co., Shelbyville, 2,693 ft. Joshua Alley, concrete, also 4,586 ft. Edward Peek Rd., Liberty Twp., crushed stone; 13,486 ft. W. H. Swinford Rd., Washington Twp., gravel; 9,365 ft. G. Firsich Rd., Shelby Twp.; 6,275 ft. M. Fair Rd., Union Twp., gravel; 6,714 ft. T. H. Grafton Rd., Noble Twp., crushed stone.

DeKalb Co., Auburn, 12,320 ft. G. W. Ditmers et al Rd. and 61,040 ft. Auburn-Newville Rd., Jackson Twp., gravel. S. D. Johnston, aud.

Whitley Co., Columbia City, 12,860 ft. Austin Hively Rd. 1, Thorncreek Twp., gravel. W. K. Burwell, aud.

July 8. Vanderburgh Co., Evansville, Lombard and Pollock Aves. and Stockwell Station Roads, Knight Twp.; P. J. Eichoff et al Rd., Perry Twp. W. Copeland, aud.

Illinois—Until July 7, by Dept. Pub. Wks. & Bldgs., Springfield, building various sections Vandalia-Cairo Highway, as follows, 0.94 mi. Sect. 24A and 1.26 mi. Sect. 25A, Fayette Co., involving 41,200 cu.yd. excav.; 0.79 mi. Sect. 26A, 1.52 mi. Sect. 27A, 0.53 mi. Sect. 28A, 0.61 mi. Sect. 29A, Marion Co., 71,940 cu.yd. excav.; 2.39 mi. Sect. 32A and 1.16 mi. Sect. 33A, Washington Co., 29,880 cu.yd. excav.; 0.75 mi. Sect. 30A, Marion and Washington Counties, 8,400 cu.yd. excav.

Illinois—Until July 7 by Dept. Pub. Wks. and Bldgs., Springfield, building 3,000 ft. concrete road, 16 ft. wide, Mason Co., cost, $13,091, 3,226 ft., 10 ft. wide, Lawrence Co., $9,854, 4,000 ft., 16 ft. wide, Shelby Co., $20,002, 4,400 ft., 10 ft. wide, Ford Co., $13,195, 4,150 ft. earth road, 26 ft. wide, Jo Daviess Co., $7,285; 3 concrete bridges, Fulton Co., $3,390.

Wisconsin—Until July 6, by State Highway Comn., at Div. Office 8, Spooner, grading and paving 5.98 mi. Hurley-Ashland Rd., Federal Aid Project 178, Ashland Co., involving 8.63 acres clearing, 6.52 acres grubbing, 23,281 cu.yd. earth and 3,418 cu. yd. borrow excav., 306.6 cu.yd. Class "A" concrete, 13,556 sq.yd. sand-clay surfacing, etc.

Wisconsin—Until July 8, by State Highway Comn., at Div. Office 5, Court House, La Crosse, improving 3.76 mi. Sparta-Black River Falls Rd., Federal Aid Project 105, Monroe Co., involving 14,469 cu.yd. earth and 219 cu.yd. borrow excav., 112.5 cu.yd. Class "A" concrete, 35,622 sq.yd. shale surfacing, etc.; 7.19 mi. Whitehall-Ettrick Rd., Federal Aid Project 120, Trempealeau Co., 4 acres clearing and grubbing, 32,096 cu. yd. earth, 2,850 cu.yd. rock and 4,572 cu. yd. borrow excav., 661 cu.yd. Class "A" concrete for culverts and 108.5 cu.yd. concrete for bridges, 2,776 lin.ft. piling, 67,766 sq.yd. gravel surfacing, etc.

Wisconsin—Until July 9, by State Highway Comn., at Div. Office 7, Court House, Rhinelander, grading and paving Crandon-Laona Rd., Federal Aid Project 155, Forest Co, involving 13.3 acres clearing and grubbing, 14,345 cu.yd. earth and 35 cu.yd. borrow excav., 95.3 cu.yd. Class "A" concrete, 44,868 sq.yd. feather edge gravel surfacing, etc.; 4.47 mi. Pelican-Crandon Rd., Federal Aid Project 73, 4.82 acres clearing and grubbing, 13,167 cu.yd. earth excav., 80.5 cu.yd. Class "A" concrete, 62,823 sq.yd. feather edge gravel surfacing, etc. Noted May 20.

Wisconsin—Until July 6, by State Highway Comn., at Div. Office 4, Citizens Natl. Bank Bldg., Grand Rapids, improving 5.98 mi. Federal Aid Project 134, Necedah Rd., Juneau Co., involving 3.7 acres clearing, 3.91 acres clearing and grubbing, 16,810 cu.yd. earth and 235 cu.yd. borrow excav., 193.7 cu.yd. Class "A" concrete, 49,568 sq. yd. 16 ft. top soil surfacing, etc., also one 45 ft. concrete deck girder span bridge.

Wisconsin—Until July 6, by State Highway Dept., at div. office No. 8, Spooner, grading and paving 2.19 mi. Amery-Balsam Lake Rd., Federal Aid Project 124, Polk Co., involving 1.54 acres clearing and grubbing, 24,280 cu.yd. earth and 6,769 cu.yd. borrow excav., 71.1 cu.yd. Class "A" concrete in culverts, also building 120 ft. span plate girder bridge, involving 78,800 lb. structural steel, 79.8 cu.yd. Class "A" and 47 cu.yd. Class "E" concrete.

Ia., Clarion—Until July 8, by Bd. Supervs. Wright Co., gravel surfacing 13.75 mi. roads. J. K. Hilton, co. engr.; advertised in this issue.

Minn., Brainerd—Until July 12, by C. W. Mahlum, aud. Crow Wing Co., clearing and grubbing 12.3 mi. Co. Job 1908, State Rd. 1, 24 ft. wide, $60,000; 3 mi. Job 2004, State Rd. 3, 24 ft. wide, involving 33,840 cu.yd. excav., 5,480 cu.yd. overhaul, 650 cu.yd. hand ditch, 992 lin.ft. 12-18-24 in. portable culverts, 150 mi. haul $27,000; 4.5 mi. Job 1910, State Rd. 8, 24 ft. wide, 33 acres clearing and grubbing, 67,529 cu.yd. excav., 9,770 cu.yd. overhaul, 1,192 Fm.ft. 12-15-18-24 in. portable culverts, 1,066 ton mi. culvert haul, $32,000. C. L. Moth, Brainerd, engr. Noted June 24.

Minn., Caledonia—Until July 7, by E. N. Newhouse, aud. Houston Co., grading and graveling 2 mi. Federal Aid Project 147, 24 ft. wide. About $27,000. C. D. Conzett, Caledonia, engr. Noted May 27.

Minn., Redwood Falls—Until July 13, by Auditor Redwood Co., graveling 10 mi. Federal Aid Project 13, 24 ft. wide, and 6½ mi. Federal Aid Project 139, 24 ft. wide. About $45,000 and $27,000 respectively. J. A. Myron, Redwood Falls, engr. Noted Jan. 15.

Kan., Ft. Scott—Until July 13, by Bourbon Co., improving 34,494 ft. Ft Scott-Pittsburgh Rd., Project 6, Sect. A, 24 ft. wide; 5,366 ft. Hammond Branch Rd., Project 13, including culverts, etc.; 9,113 ft. Garland Branch Rd., 24 ft. wide; 19,221 ft. Kansas City Rd., Project 5, Sect. B, 16 ft. wide. B. Boyle, co. engr. Noted Apr. 29.

Mo., Monticello—Until July 9, by Lewis Co., building 5.8 mi. Canton-Monticello Rd., 24 ft. wide, Federal Aid Project 60, involving 30,596 cu.yd. earth and 640 cu.yd. rock excav., 3,302 cu.yd. borrow, 700 cu.yd. per 100 ft. overhaul, 54,703 sq.yd. gravel surface course on plain macadam base, 1.5 cu.yd. Class "A," 212.2 cu.yd. Class "B" and 82.7 cu.yd. Class "C" concrete masonry, 21,083 lb. reinforcement for concrete masonry, 1,115 lin.ft. 12 in. vitr. clay pipe culvert, etc., cost $80,580; 4.28 mi. La Belle-Monticello Rd. (Lewistown Special Rd. Dist), 24 ft. wide, Federal Aid Project 68, 15,602 cu.yd. earth and 50 cu.yd. rock excav., 1,787 cu.yd. borrow, 1,000 cu.yd. per 100 ft. overhaul, 40,182 sq.yd. gravel surface course on plain macadam base, 68.3 cu.yd. Class "B" and 3.4 cu.yd. Class "C" concrete masonry, 5,692 lb. reinforcement for concrete masonry, 93 lin.ft. 12-18 in. vitr. clay pipe culverts, etc., $42,636; 8.37 mi. Red Ball Route (Canton Special Rd. Dist.), 24 ft. wide, Federal Aid Project 38, 35,638 cu.yd. earth and 360 cu.yd. rock excav., 18,060 cu.yd. borrow, 9,101 cu.yd. per 100 ft. overhaul, 79,491 sq.yd. Spec. "E" gravel pavement, 295.8 cu.yd. Class "E" and 51.6 cu.yd. Class "C" concrete masonry, 23,731 lb. reinforcement for concrete masonry, 234 lin.ft. 12-36 in. vitr. clay pipe culvert, etc., $85,828.

Tex., Austin—Until July 5, by D. J. Pickel, judge Travis Co., grading, gravel surfacing and draining 3 mi. Austin-Oak Hill Rd., 16 ft. wide, involving 3,987 cu.yd. earth excav., 27,982 sq.yd. bituminous macadam, 221 cu.yd. concrete, 8,785 lb. steel, etc. About $26,665. Separate bids will be received on bituminous topping. H. W. Nolen, 511 Scarbrough Bldg., engr. Noted June 17.

Tex., Austin—Until July 5, by D. J. Pickle, judge Travis Co., grading, surfacing and draining 3.1 mi. Austin-Georgetown Rd., 16 ft. wide, involving 5,584 cu.yd. gravel and bituminous topping, 5,110 cu.yd. earth excav., 28,700 sq.yd. bituminous macadam, 92 cu.yd. concrete, 6,263 lb. reinforcing steel, etc. About $47,564. Separate bids will be received on bituminous topping. H. W. Nolan, 511 Scarbrough Bldg., engr.

Washington—Until July 12, by State Highway Comn., Olympia, clearing, grading, draining and surfacing with gravel, 1.24 mi. State Rd. 5, Lewis Co., grading, draining and paving with concrete 1 mi. Pacific Highway from Silvana north, Post Rd. 61, Snohomish Co., 1.71 mi. Olympic Highway, from Elma east, Grays Harbor Co.

Que., Montreal—Until July 5, by city, building 3 mi. permanent pavement on Laurier, Boyer and Westhill Sts., 25 ft. wide. A. E. Doucet, city engr.

Ontario—Until July 6, by W. A. McLean, deputy minister of highways, Parliament Bldgs., improving 10 mi. of provincial highways, 20 ft. wide, in Cramahe (Contr. 91) and Tyendinaga Twps. (Contr. 92), involving 40,000 cu.yd. earth excav. About $30,000. G. Hogarth, Parliament Bldgs., Ottawa, engr.

Ontario—Until July 14, by Dept. [illegible] Highways, Toronto, building 12 mi. [illegible] vincial Highway between Ottawa [illegible] Manotick, Nepean Twp. About $36

Ont., York—York Twp. receiving [illegible] building 10 mi. granolithic cement [illegible] walks, also ½ mi. Tarvia pavement. About $50,000. F. Barber, 40 Jarvis St., Toronto, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Massachusetts—State Highway Comn., Boston, received bids June 22, building 7,200 ft. highway, 80 ft. wide, Dudley-[illegible] C. Bianchi Co., $61,638, Lowney & Torello, $64,574, D. Stephano Bros. Co., $66 state road, Ayer, from Hanscom Constr. Co., $41,465, D. Orifro Bros., Leominster, $46,485, Smith & Leonard Constr. Co., 530 Tremont Bldg., Boston, $47,150.

★Mass., Attleboro—P. E. Brady, [illegible] let contract paving Pleasant St., involving 2,000 ton broken stone, 9,000 sq.yd. bituminous concrete surfacing, 425 cu.yd. screened gravel, etc., South Main St., 1,400 ton broken stone, 10,000 sq.yd. bituminous concrete surfacing, 1,200 lin.ft. concrete guttering, etc., County St., 1,300 ton broken stone, 11,200 sq.yd. bituminous concrete surfacing, etc., to R. H. Newell Co., [illegible] bridge, $76,004. Noted June 3.

★Mass., Boston—City let contract laying bituminous pavement on Fens St. and Jamaicaway, to Warren Bros., 142 Berkeley St., $28,684 and $29,291 respectively. Noted June 17.

★Mass., Boston—City let contract paving Belgrade Ave., Beach and Center Sts. to Peka, to Rowe Constr. Co., 45 Milk St., $303,398. Noted June 17.

★N. Y., Brooklyn—Park Bd., at office of Dept. Parks, Municipal Bldg., New York City, let contract furnishing labor and material improving Ocean Parkway Traffic Rd., here, to Brooklyn Alcatraz Co., 107 Hamilton Ave., $99,788. Noted June 24.

★N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., let contract regulating and grading roadway of Jackson Ave., also regulating and repaving outside railroad franchise area, etc., to Sicilian Asphalt Paving Co., 41 Park Row, New York City, $195,838 and $198,838 respectively. Noted June 24.

★N. Y., New York—H. H. Curran, pres. Manhattan Boro., let contract repairing and restoring wood block and granite block pavements and foundation in railroad area to Casper Helbroock Co., $78,540. Noted June 24.

★N. Y., S. I., St. George—C. D. Van Name, pres. Richmond Boro., let contract repairing with wood block pavement roadway of Richmond Ave. from Richmond Terrace to south property line, and Richmond Terrace from York Ave. to Sailors' Snug Harbor Dock, to J. Johnson Sons, West New Brighton, $31,182 and $26,720 respectively. Noted June 24.

N. Y., S. I., St. George—C. D. Van Name, pres. Richmond Boro., received bids June 24, repaving roadway of Rockland Ave. from Forest Hills Rd. to point 1,100 ft. west of Manor Rd., from J. Johnson Sons, $4,334; J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $40,523; C. Vanderbilt, 24 Elizabeth St., West New Brighton, $41,254. Noted June 17.

Pa., Pittsburgh—City received bids June 21, improving 2nd Ave. from Liberty to Grant Sts., from Booth & Flinn, Ltd., 1942 Forbes St., $148,226; J. H. McQuade & Sons Co., Bakewell Bldg., $156,979; T. Cronin Co., South 17th and Muriel Sts., $169,074; Whillpe St. from Goodman St. to city line, involving 9,002 cu.yd. grading, (b) 7,226 sq.yd. asphalt paving, (c) 3,675 lin.ft. protected concrete curbing, (a) 206 lin.ft. protected concrete radius curbing, (e) 6 catchbasins, (f) 134 lin.ft. terra cotta pipe from M. O'Herron Co., South 1st and McKean Sts., (a) $1.25, (b) $3.66, (c) $1.25, (d) $1.50, (e) $150 each, (f) $4.50 total $44,383; T. Cronin Co., South 17th and Muriel Sts., (a) $1.25, (b) $3.60, (c) $1.50, (d) $2, (e) $100, (f) $5, $44,803; Booth & Flinn, Ltd., 1942 Forbes St., (a) $1, (b) $4.05 (c) $130, (d) $1.50, (e) $125, (f) $4, $44,922. Noted June 17.

★Md., Frederick—Comrs. Frederick Co. let contract building 2 mi. concrete road from Middletown toward Harmony, to M. J. Grove Lime Co., Limekiln, Md., $60,541.

★W. Va., Beckley—Raleigh Co. let contract grading Eccles-Surveyor Rd., involving 44,555 cu.yd. earth excav., 673 cu.yd. mass concrete, 5,960 lb. reinforcing steel, 389 ft. 15 in. and 445 ft. 18 in. vitr. clay pipe and 479 rubble masonry, to Higgins & Co., Charleston, $63,733.

★W. Va., Middlebourne—Tyler Co. let contract grading 4 mi. Sisterville-Friendly

Streets and Roads (Continued)

Rd., 16 ft. wide, to W. F. Allen & Co., Clarksburg. About $38,000. Noted May 27.

★W. Va., Winfield—Putnam Co. let contract building 4 mi. asphalt and bituminous macadam road from Cabell Co. line to beyond Hurricane, to Clifford Eng. Co., Maine St., Farmingdale, N. J., $97,563.

★S. C., Bishopville—City let contract paving various streets and sidewalks, to Powell Contg. & Constr. Co., Columbia. About $165,000.

★S. C., Florence—Florence Co. let contract grading, surfacing and draining 5.982 mi. Florence-Sumter Rd., 16 ft. wide, 1 course concrete, involving 22,924 cu.yd. dry earth excav., to Slattery & Henry, Greensville. $200,257.

Ohio—State Highway Dept., Columbus, received bids June 18, building roads in following counties:

Ashland Co., grading, constructing bridges and culverts and paving with monolithic brick, 3.781 mi. Sect. B, Ashand-Wooster Rd., from Foster-Haffner Constr. Co., Dayton. $175,998.

Coshocton Co., grading, constructing bridges and culverts and paving with monolithic brick, 2.474 mi. Sect. E, Newcomerstown-Coshocton Rd., from T. J. Norman & Son, West Lafayette. $122,854.

Erie Co., grading, constructing drainage structures and paving with plain concrete, 3.051 mi. Sect. A., Lima-Sandusky Rd., from E. F. Hoffman, Castalia. $124,217.

Franklin Co., (a) grading, constructing drainage structures and paving on same .84 mi. Sect. 2., Natl. Rd., (b) paving between interurban tracks on same from Billiter & Connell, West Jefferson. (a) brick, $100,865; Franklin Asphalt Paving Co., Columbus, (a) sheet asphalt, $130,972, (b) $22,254.

Gallia Co., grading, constructing bridges and culverts and paving with bituminous macadam, 6.248 mi. Sect. F-2 and G, Jackson-Gallipolis Rd., from Miller Bros., Gallipolis. $179,219.

Guernsey Co., grading, building drainage structures and paving with brick on sandstone base, .54 mi. "Village of Fairview" Natl. Rd., from C. E. Wilson, Barnesville. $22,228.

Sandusky Co., grading, constructing drainage structures and paving with brick, 6.512 mi. Sect. L Fremont-Perrysburg Rd., from Modern Constr. Co., Fremont. $425,512. (bituminous concrete) $413,819.

Union Co., grading constructing bridges and paving with bituminous macadam, 2.888 mi. Sect. D, Columbus-Marysville Rd., from T. D. Vancamp, Cincinnati, $84,720; J. C. McCann, 262 Midland Ave., Columbus, $89,870.

Wayne Co., grading, constructing bridges and culverts and paving with monolithic brick, 4.08 mi. Sect. F, Cleveland-Wooster Rd., from Lee, Griggs & Anderson, Millersburg, $167,630 Smith Constr. Co., Youngstown, (bituminous macadam) $151,418. Noted May 27 and June 3.

O., Cleveland—City received bids grading, draining, curbing, paving and repaving (a) Superior Ave. from East 12th to East 21st Sts., (b) Superior Ave. from East 21st to East 27th Sts., (c) East 21st St. from St. Clair to Payne Aves., (d) Aetna Rd. from East 78th to East 82nd Sts., involving 22,400 sq.ft. brick block, 335,800 sq.ft. granite block, 33,135 sq.yd. wood block, 18,850 cu. yd. grading, 349,000 sq.ft. 4 and 8 in. concrete base, 12,850 ft. stone curbing and 13,980 ft. French tile drain guttering, (e) West 88th St. from Denison to Almira Aves., (f) Fidelity Ave., from West 105th St. to West Blvd., (g) Vineyard Ave. from Warner Rd. to city limits, (h) Jeffries Ave. from Warner Rd. to city limits, 1,822 sq.yd. asphalt, 93,050 sq.ft. brick block, 5,040 cu.yd. grading, 93,050 sq.ft. 4 in. concrete base, 7,150 ft. stone curbing and 7,150 ft. French tile drain guttering, (i) Beck Ave. from East 40th to East 44th Sts., (j) Oakwood Ave. from East 71st to East 72nd Sts., (k) Pittsburgh Ave. from Bway. to East 27th St., 7,740 sq.ft. brick block, 28,000 sq.ft. granite block, 1,590 yd. grading, 29,240 sq.ft. 4 in. concrete base, 980 ft. stone curbing and 2,960 ft. French tile drain guttering, from Riley Bros., The Arcade, (a) $181,698, (b) $159,386, (c) $41,084, (d) $23,951, (e) $21,031, (f) $17,323, (g) $26,365, (h) $29,230, (i) $4,853, (j) $7,930; Bentley Bros., 1836 Euclid Ave., (a) $182,784, (c) $40,528, (k) $18,960; Enterprise Paving & Constr. Co., 8440 Bway., (a) $184,940, (b) $159,799, (d) $24,388, (g) $25,418, (h) $28,163; Burnett & Hathaway, c/o Pavers' Exch., (b) $162,472, (c) $40,143, (k) $20,836; A. J. Pejsa, East 93rd St., (d) $23,830, (g) $26,099, (h) $28,911, (i) $4,753, (j) $7,890, (k) $21,091; Roehl Bros., West 25th St. and Clark Ave., (e) $19,311, (f) $16,972; Cleveland-Trinidad Paving Co., The Arcade, (f) $16,972.

★O., Hamilton—Butler Co. let contract resurfacing 4.5 mi. Darrtown Pike, 20 ft. wide, asphalt, to Andrews Asphalt Paving Co., 7 Rentschler Bldg. About $65,000.

★O., Kenton—City let contract paving 1,500 ft. Cherry St., 30 ft. wide, asphaltic concrete, to H. P. Streicher Co., 319 Terminal Bldg. About $37,500.

★Ind., Indianapolis—City let contract paving 2,609 ft. Guilford Ave. from 42nd to 46th St., 24 ft. wide, bituminous concrete, to J. N. Morgan & Son., at $5.95 per lin.ft., total $30,901; grading and paving 3,349 ft. Blue Ridge Rd. from Illinois St. to Boulevard Pl., 40 ft. wide, to Mansfield Eng. Co., 1011-14 Fletcher Savings & Trust Bldg., $32,084. Noted April 8.

★Ind., Terre Haute—Comrs. Vigo Co. let contracts to Carpenter Constr. Co. improving Dodd Rd., Sect. 1 and 2, $142,505 and $121,369 respectively, C. F. Hill Rd., $120,680, Seidenbender Rd., $172,000; Premier Constr. Co., W. E. Eppert Rd., $204,000; to Connery & Cline, building bridge on Lockport Rd., $6,800.

Mich., Detroit—City received bids furnishing labor and material for grading and paving with 1 course concrete, 2 x 6 in. retaining plank sides and stone headers (a) Alley 1,174 between St. Jean, Baldwin, Sylvester and Canfield Aves, (b) 1,195 between Brush, Beaubien, Brady and Illinois Sts., (c) 1,176 between Beechwood, Grand River, Ivanhoe and Spokane Sts., (d) 1,177 between 14th, Wabash, Marquette and Ferry Park Aves., (e) 1,178 between Fisher, Crane, Goethe and Mack Aves., (f) 1,179 between Wilson, Taylor and Clairmount, (g) 1,180 between West Grand Blvd., Vinewood, Hancock and Warren Sts., (h) 1,181 between Linwood St., La Salle Blvd. and La Salle Gardens N., from Otis Cement Constr. Co., 806 Hammond Bldg., (a) $5,183, (b) $5,667, (c) $9,813, (d) $6,248, (e) $8,395, (f) $5,905, (g) $8,773, (h) $6,980; Lester & Shepard, 400 Penobscot Bldg., (a) $5,155, (b) $5,589, (e) $8,308; T. E. Currie, 20 McGraw Bldg., (a) $4,821, (e) $7,993; R. J. Powelson Co., 1577 Iriquois St., (b) $5,775, (c) $9,996, (d) $6,333, (f) $5,723; R. A. Mercier, 746 Hudson Ave., (c) $9,996, (d) $6,100, (g) $8,412, (h) $7,108; R. Porath, 1131 McKinley Ave., (g) $8,872, (h) $7,093.

★Wisconsin—State Highway Dept., Madison, let contract improving Green Bay-Oconto Rd., Federal Aid Project 111, Oconto Co., to C. E. Lucia, Big Suamico, $19,836. Work involves 19,775 cu.y.d. earth and 28 cu.yd. borrow excav., 284.5 cu.yd. Class "A" concrete, 42,904 cu.yd. gravel surfacing, etc.

★Wis., Green Bay—City let contract improving various streets, to F. P. Caughlin Co., Humboldt Ave., Milwaukee. About $194,000.

★Wis., North Milwaukee—City let contract building 28,100 sq.ft. cement walks, to Schoonmaker Constr. Co., Wauwatosa, cutting at $1.50, fill, $1.50, walks, $0.25 and driveway, $0.30.

★Wis., Superior—City let contract paving 6 mi. Grand Ave. from city limits to Spaulding Ave., 18 ft. wide, concrete, to Peterson & Nelson, 1201 13th St. About $264,000.

★Ia., Manning—Town let contract paving, curbing and guttering streets, to Akin & Flutter, Corning. About $275,000. Noted Feb. 5.

★Ia., Spirit Lake—Dickinson Co. let contract grading and paving 4.8 mi. Federal Aid Project 68, from Milford to Clay, involving 51,059 sq.yd. Class "A" concrete and 9,612 cu.yd. dry excav., to Koss Constr. Co., 2818 5th St., Des Moines, $212,161. Noted June 10.

★Kan., Garden City—Finney Co. let contract building 17½ mi. Santa Fe Trail, to M. Ammerman, Salina. About $700,000. Noted June 24.

★Kan., Kansas City—Wyandotte Co. let contract grading and building culverts on Bonner-Piper Rd., involving 50.8 cu.yd. concrete, 1 ton steel and 13,701 cu.yd. earth excav., to H. A. Kepler, 700 N. 12th St., $37,416; Reidy Rd., involving 76.6 cu.yd. concrete, ¾ ton steel, 54,147 cu.yd. earth and 10,335 cu.yd. rock excav., to Spitcaufsky Bros., Kansas City, $65,958.

★South Dakota—State Highway Comn., Pierre, let contract grading and draining 24.46 mi. Britton-Sisseton Highway, Federal Aid Project 41, Marshall and Roberts Counties to Jahnig & Davis, Britton, $215,107; graveling, also grading and draining 28.07 mi. Aberdeen-Webster Rd. and Yellowstone Trail, Federal Aid Project 22, Day Co., to Comrs. Day Co., Webster, $59,166 and $177,602 respectively. Noted Mar. 25 and April 1.

South Dakota—State Highway Comn., Pierre, received bids graveling 24.46 mi. Britton-Sisseton Highway, 18-20 ft. wide, Marshall and Roberts Counties, from H. B. Sherburn, Britton, $72,189; Stevens Bros., St. Paul Minn. $75,242. Noted April 1.

★Wyo., Evanston—Uinta Co. will grade 7 mi. Hog Back Rd. from Jackson's Hole to state line, 18 ft. wide. About $50,000. Work will be done by day labor under supervision of A. M. Williams, supt. of constr.

★Tex., Eldorado—Schleicher Co. will grade, surface and drain 7.35 mi. Highway 4, San Angelo-Sonora Rd., 16 ft. wide. About $168,581; including 10% for engineering and contingencies. Work will be done by day labor. Noted June 24.

Tex., Georgetown—Comrs. Williamson Co. received bids grading, surfacing and draining (a) 5.66 mi. Highway 2, Bartlett-Granger Rd. (new location), 16 ft. wide, involving 4,352 cu.yd. earth borrow, 23,954 cu.yd. earth excav., 308.63 cu.yd. Class "A," 58.1 cu.yd. Class "B" and 1.4 cu.yd. Class "C" concrete, 11,274 lb. plain steel bars in place and 11,453 cu.yd. gravel, (b) grading, surfacing and draining 5.66 mi. Highway 2, Bartlett-Granger Rd. (old location) 16 ft. wide, 2,010 cu.yd. earth borrow, 10,527 cu.yd. earth excav. in roadway, 218.4 cu.yd. Class "A" and 19.88 cu.yd. Class "B" concrete, 19,332 lb. reinforcing steel bars and 12,909 cu.yd. gravel, from Brown & Root, Taylor, (a) $44,862, (b) $35,264; Sherman, Walton & Humphreys, Mexia, (a) $50,740, (b) $40,695; Williamson Co., Georgetown, c/o S. Moore, co. judge, (a) $34,562, (b) $23,772. New location eliminates 2 railroad crossings and if decided upon will mean construction of new road. Noted June 10.

Tex., Gilmer—Upshur Co. received bids June 17, grading, surfacing and draining (a) 2.015 mi. Highway 42, Federal Aid Project 160, 12 ft. wide, involving 39 acres clearing and grubbing, 15,865 cu.yd. gravel, 110.58 cu.yd. Class "C" concrete, 42,392 cu. yd. earth excav., etc., (b) 25.877 mi. Highway 11 from Gregg to Camp Counties, 12 ft. wide, 40,378 lin.ft. scarifying, 36,093 cu. yd. gravel, 46,682 cu.yd. earth excav., 96,441 lb. reinforcing steel, 815.8 cu.yd. Class "A" and 384.1 cu.yd. Class "B" concrete, from C. W. Brice, Gilmer, (a) $61,543; Tibbett & Tibbett, Mineral Wells, (a) $63,604, (b) $176,871; Smith Bros., Crockett, (a) $76,193, (b) $207,453. Noted June 3 and 10.

Tex., Mt. Pleasant—Titus Co. received bids June 16, gravel surfacing and draining (a) 11.21 mi. Highway 1, Federal Aid Project 27, 12 ft. wide, (b) 7.26 mi. Highway 1 from 4 mi. east of here to Morris Co. line, 16 ft. wide, (c) 5.148 mi. Highway 11 from here to Camp Co. line, 12 ft. wide (d) 5.75 mi. Highway 35, State Aid Project 84, 16 ft. wide, from Smith Bros., Crockett, (a) $152,883, (b) $61,925, (c) $40,527, (d) $44,792; Lone Star Bridge & Steel Co., Houston, (a) $56,107, (b) $14,683, (c) $7,544, (d) $16,305. Noted June 10.

★Tex., Paris—Lamar Co. let contracts grading, excavating and paving 62.37 mi. various highways, 18 ft. wide, to Womack Constr. Co. and McElwrath & Rodgers, Paris, $325,000; building bridges and drainage structures on same, to Austin Bros. Bridge Co., 1815 Coombs St., Dallas, $143,000. Work involves 88 acres clearing and grubbing, 336,000 cu.yd. unclassified earth and 1,500 cu.yd. structural excav., 10,100 cu.yd. ditching, 194,797 cu.yd. Class "A" and 275,38 cu.yd. Class "B" concrete, 168,802 lb. reinforcing steel for concrete bridges and culverts, 1580.3 cu.yd. Class "A" and 832 cu.yd. Class "B" concrete in bridges and culverts, 484,800 lb. structural steel, etc.

★Tex., San Antonio—Bexar Co. let contract grade surfacing and paving 6.77 mi. Highway 2, Pearsall Rd., 16 ft. wide, to Chapin-Coglazier Constr. Co., Moore Bldg., $43,504, including 10% for engineering and contingencies. Noted June 24.

★Utah—State Highway Dept., Salt Lake City, let contract grading and surfacing 30.53 mi. Price-Emery Highway, 20 ft. wide, to Reynolds-Ely Co., Salt Lake City. $231,501.

★Utah, Provo—Utah Co. let contract paving 1.5 mi. road west from Lehi, 18 ft. wide, also 1.7 mi. road west from Payson, 18 ft. wide, 7 in. concrete, to Wattis & Samuels, Newhouse Bldg., Salt Lake City, $39,959 and $49,565 respectively; 2.4 mi. Center St. west, 18 ft. wide, 7 in. concrete, also 3.1 mi. Pleasant Grove to Vineyard, 18 ft. wide, 7½ in. concrete, to Gray & Murdock, Salt Lake City, $64,772 and $86,194 respectively.

★Ariz., Flagstaff—City let contract building 1.098 mi. State Highway through here, to Warren Bros., 204 Noll Bldg., Phoenix, $74,929. Work involves 2,549 cu.yd. unclassified excav. at $1.90 per cu.yd., 15,690 sq.yd. 6 in. bitullthic paving, $3.43, 76 cu.yd. Class "A" concrete in culverts, $36, 12 cu. yd. Class "B" concrete, $25, 374 cu. yd. excav., $2.50, 89 cu.yd. concrete bridge flooring, $36, and 113 cu.yd. rubble concrete abutments, $25.

Streets and Roads (Continued)

★**Wash., Davenport**—Lincoln Co. let contract surfacing with crushed gravel 11 mi. Donohue Rd. 3, to Northwestern Paving Co., Spokane, $28,525, grading, to S. G. Kinder, Mansfield, $50,979. Noted Feb. 26.

★**Wash., South Bend**—Pacific Co. let contract subgrading and paving 4.63 mi. road, 9, 10 and 18 ft. wide, involving 25,578 sq.yd. concrete, to Alberst & Son., Chehalis, $73,065.

★**Cal., Martinez** — Bd. Supervs. Contra Costa let contract grading and paving 1 mi. of main streets in town of Crockett, concrete and bitulithic, to R. Blanco, Vallejo, $26,567; 7 mi. Concord-Clayton Rd. and 4 mi. Ygnacio-Vallejo Rd., oil bound macadam, to A. J. Grier, $18,860 and $37,303 respectively.

★**Cal., San Luis Obispo**—Bd. Supervs. San Luis Obispo Co. let contract grading, draining and paving 11 mi. Route 3, Sect. A, San Luis Obispo-Cambria Rd., 5 in. concrete, to Hunt-Waugh Constr. Co., 1847 West 43rd St., Los Angeles, $171,625.

★**Ont., New Toronto**—Town let contract improving 8th, 19th, 21st, and 22nd Sts., involving 2,200 sq.yd. concrete, 2,700 lin. ft. concrete sidewalks, 600 ft. 4 x 6 ft. concrete storm sewers and 2,500 ft. 6 in. water mains, to Central Foundation Co., Norwich Union Bldg., Toronto. About $40,000.

★**Ont., Owen Sound**—City let contract paving 2 mi. various streets, involving 35,000 sq.yd. bitulithic wearing surface to Warren Bituminous Co., McKinnon Bldg., Toronto, also concrete base, and 3 mi. curbing and guttering, to Curran & Clement, Orilla. About $150,000.

★**Ont., Welland**—Welland Co. let contract building 5½ mi. road from Thorold to Black Horse and Garrison Rd. west from Ft. Erie, waterbound macadam 16 ft. wide, to E. G. Law, 107 Hillsdane Ave., East Toronto, $15,769 per mi.

B. C., South Vancouver—City let contract resurfacing 3.5 mi. Marine Drive, 16 ft. wide, bituminous macadam, to Harrison & Lamond, 744 Hastings St. W., Vancouver. About $50,000.

★**B. C., Vancouver** — City let contract hardsurfacing 3 mi. various streets, asphaltic macadam on macadam base, to Columbia Bitulithic Co., Ltd., 402 Pender St. W., at $1.20 per sq.yd.

Railways

PROPOSED WORK

Quebec—Grand Trunk Ry. System (Canadian Government Ry.), McGill Bldg., Montreal, soon receives bids building 3 mi. single track from Victoriaville to Arthabaska, H. R. Safford 359 Melville Ave., Montreal, ch. engr.

PRICES AND CONTRACTS AWARDED

New York—Dept. Pub. Welfare, Municipal Bldg., New York City, received bids June 24, building (a) coal railway and trestle and installing coal hoisting apparatus at power house, Blackwell's Island, (b) constructing and equipping new automatic coal railway and trestle, at power house, Metropolitan Hospital, from A. M. Hazell, Inc., 25 Church St., New York City, (a) $17,380, (b) $23,600; O. Metz, 119 Palmetto St., Brooklyn, (a) $19,200, (b) $25,475; P. T. Cox, 150 Nassau St., New York City, (a) $19,900, (b) $27,700.

Excavation and Dredging

PROPOSED WORK

Miss., Tunica—Excavation — Yazoo-Coldwater D. D. plans to build system in Tunica, De Soto and other counties, to include 7 mi. diversion channel, earth dam and levee, involving 10,000,000 cu.yd. dry earth excav. and embankment. S. B. Fithian, hr. Falcon.

Ark., Osceola—Dredging—D. D. 8 had plans prepared by Morgan Eng. Co., engrs., Goodwyn Institute Bldg., Memphis, Tenn., for 85 mi. redredging, involving 2,500,000 cu.yd. dragline excav. J. P. Emerson, secy.

Ark., Osceola—Dredging—D. D. 9 had plans prepared by Morgan Eng. Co., engrs., Goodwyn Institute Bldg., Memphis, Tenn., for 85-100 mi. redredging, involving 9,500,000 cu.yd. dragline excav.

Tex., Port Arthur—Ditch—Supervs. Port Arthur Fresh Water Dist. plan to build 6.6 mi. intake ditch, etc., on Sabine River, 10 mi. above Orange, near Kansas City Southern Crossing. About $1,000,000. Nagle-Witt-Rollins, Amer. Exch. Natl. Bank Bldg., Dallas, engrs.

Cal., Madera—Irrigation—Madera Irrigation Dist. having plans prepared by Quinton, Code & Hill, engrs., Hollingsworth Bldg., Los Angeles, for 3,900 ft. gravity type concrete masonry dam, in San Joaquin River, near Friant and Millerton, to raise water level 285 ft. and impound 400,000 acre feet, involving 1,300,000 cu.yd. masonry. Above engineers to have charge of construction of dam. T. H. Means, ch. engr. of Dist., 58 Sutter St., San Francisco, to have charge of distributing system to serve 350,000 acres, pumping plants and drainage system. Election will be held to vote on $15,000,00 to $20,000,000 bonds for project. Noted Aug. 7.

N. B., St. John—Dredging—Dept. Pub. Wks., Ottawa, soon receives bids dredging, here. About $450,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Miss., Cleveland** — Excavation — Drainage Comrs. D. D. 10, Bolivar Co., let contract excavating Ditch 1, involving 450,766 cu.yd., to McWilliams Co., Inc., South Memphis St., Memphis, Tenn., $0.19½.

★**B. C., Vancouver**—Dredging—Harbor Comrs., 712 Pender St., W., let contract dredging and filling on site of Ballantyne Pier, to Grant & McDonald, 1201 Georgia St. About $600,000.

Industrial Works

PROPOSED WORK

Mass., Boston—F. A. Norcross, archt., 46 Cornhill St., soon lets contract building 4 story, rein.-con. bakery and storehouse, rein.-con. flooring, concrete foundation, on Boylston St., for Women's Educational & Industrial Union, 264 Boylston St. About $75,000. Noted May 20.

Mass., Cambridge — Monks & Johnson, engrs., 99 Chauncey St., Boston, soon let contract building 1 and 3 story rein.-con. plant, rein.-con. flooring, concrete foundation, here, for Barta Press Co., 28 Oliver St. Boston. About $125,000.

Mass., Cambridge—F. F. Jonsberg Co., archts. and engrs., 16 Central St., Boston, soon lets contract building 2 story, 140 x 230 ft., rein.-con. warehouse and refrigerating plant, rein.-con. flooring, concrete foundation, on Albany and Pacific Sts., for E. E. Gray Co., 154 Hanover St., Boston. About $250,000. Noted April 8.

Mass., East Springfield (Springfield P. O.) —New England Westinghouse Co., 165 Bway., New York City, soon lets contract building 4 story, brick and concrete machine shop, rein.-con. flooring, concrete foundation, here. About $225,000. B. H. Prack, Keystone Bldg., Pittsburgh, Pa., engr.

Mass., Willimansett (Holyoke P. O.)—New England Tire & Rubber Co., Springfield, plans to build large brick and rein.-con. plant, here. F. H. Callahan, pres. Private plans.

Mass., Worcester—E. T. Chapin, archt., 340 Main St., scon lets contract building 1 story, 80 x 95 ft., brick, concrete and steel, garage rein.-con. flooring, concrete foundation on School St., for M. N. Ullman, 50 Water St. About $50,000.

Conn., East Hartford (Hartford P. O.)—A. F. Way Co., 32 Union Pl., Hartford, soon lets contract building 1 story, 50 x 150 ft., brick and concrete plant, rein.-con. flooring concrete foundation, here. About $75,000. M. B. Harding, 33 Elm St., Westfield, Mass., archt.

Conn., Fairfield—Bridgeport Deoxidized Bronze & Metal Co., Iranistan Ave., Bridgeport, plans to build 1 story, concrete and steel factory, on Benson Rd., here. Architect not selected.

Conn., Waterbury—M. J. Daly & Sons, 543 Bank St., soon let contract building 1 story, 110 x 180 ft., brick and steel plant, rein.-con. flooring, concrete foundation. About $80,000. Private plans.

Conn., Waterbury—E. J. Manville Machine Co., 574 East Main St., soon lets contract building 2 story, 50 x 200 ft., brick and mill construction plant, concrete foundation. About $65,000. Private plans.

N. Y., Batavia—Batavia Specialty Co., Harvester Ave., plans to build 70 x 250 ft., rein.-con. plant. About $100,000.

N. Y., Buffalo—Eberhardt Steel Products Co., 41 Perry St., had plans prepared for 1 story, 100 x 200 ft. factory at 622-628 East Ferry St. C. Eberhardt, Jr., pres.

N. Y., Falconer — Jamestown Malleable Products Corp., Jamestown, having plans prepared for 400 x 400 ft., brick and steel foundry here. About $300,000. O. A. Lenna, pres.

N. Y., New York—Hill-Ware Co., c/o McCormick Co., archts. and engrs., 41 Park Row, soon lets contract building brick, steel and concrete bakery, rein.-con. flooring, concrete foundation, on 165th St. About $100,000.

N. Y., New York—S and Z Bldg. Co., J. M. Felson, archt. and engr., 1133 Bway, having revised plans prepared for 4 st. rein.-con. and steel garage and service station, rein.-con. flooring, concrete foundation on Manhattan Ave. and 130th St. About $150,000. Noted June 24.

Pa., Horrell (Canoe Creek P. O.)—Standard Powder Co., Phila., purchased several hundred acres, here, and plans construct plant, to consist of twenty-1 story buildings with standard gauge necting railroad and macadam road. A $1,000,000.

Pa., Pittston—Pittston Silk Throwing Co., 91 North Main St., plans to build story, 60 x 150 ft., brick mill, rein.-con. flooring, rock foundation, on North Main St. About $60,000. Architect not selected.

Pa., Whites Ferry (Falls P. O.)—Industrial Home plans to build 2 story, 100 x 400 ft., rein.-con. and brick dairy, rein.-con. flooring, rock foundation. About $150,000. Architect not selected.

Md., Baltimore—I. Silberstein, 607 Fountain Bldg., had plans prepared by S. Posnell, archt., 2730 North Calvert St., for 3 story, 48 x 144 ft., brick, concrete and steel industrial building, concrete foundation, on Paca and Fayette Sts. About $150,000.

N. C., Charlotte—Charlotte Spinning Mill Co. having plans prepared by Watson Eng. Co., archts. and engrs., Hippodrome Bldg., Cleveland, O., for 3 story, 100 x 300 ft. spinning mill and boiler house, brick, rein.-con. and steel, rein.-con. flooring, concrete foundation. About $300,000.

Ga., Savannah—Atlantic Coast Line R.R., Bull St., plans to build roundhouse, turntable and additions to Southover Shops. About $250,000. J. E. Willoughby, Wilmington, N. C., ch. engr.

Fla., Pensacola—Alexandria Cooperage & Lumber Co., Alexandria, La., plans to build cypress mill, here. About $200,000.

O., Cleveland—Amer. Can Co., 1677 East 40th St., having plans prepared by C. C. Preis, archt. and engr., 420 Bway., New York City, for 6 story, 60 x 170 ft., rein.-con., brick and steel factory, rein.-con. flooring, concrete foundation, on Payne Ave. and East 41st St. About $200,000. H. C. Meyer, supt.

O., Cleveland—G. J. Koller, 724 Prospect Ave., purchased site and plans to build 3 story, rein.-con., brick and steel warehouse and commercial, rein.-con. flooring, concrete foundation, on Euclid Ave. and East 84th St. About $100,000. Architect not selected

O., Cleveland—Standard Envelope Mfg. Co., c/o M. Altschul, 1011 Oregon Ave., plans to build 2 story, brick and steel factory, brick foundation. About $75,000. Architect not selected.

Ill., Chicago—See "Buildings."

Ill., Chicago—E. Katzinger Co., 120 North Peoria St., having plans prepared by A. S. Alschuler, archt., 28 East Jackson Blvd., for factory on Armitage and Cicero Aves. with 200,000 sq.ft. floor space. About $500,000.

Wis., Milwaukee—Amer. Metal Products Co., Clinton St., plans to build 80 x 220 ft. foundry, on Burnham St. C. J. Zaise, genl. mgr.

Wis., Racine—Case Plow Wks., Mead St., plans to build 4 story, 123 x 138 ft., rein.-con. addition to factory. About $140,000. Foltz & Brand, 111 West Washburn St., Chicago, engrs.

Wis., West Bend—West Bend Heat & Light Co. plans to build 113 x 150 ft. power plant. Cost between $80,000 and $100,000. Combustion Eng. Co., 11 Bway., New York City, engrs.

Ia., Sioux City—Sioux City Casket Co., 900 5th St., soon lets contract building 3 story, 44 x 190 ft., factory and office, brick. About $200,000. Beuttler & Arnold, Grain Exch. Bldg., archts. Noted May 6.

Wyo., Shoshoni—Wyoming Chemical Products Co., Duluth, Minn., plans to construct plant, to include one 30 x 60 ft., three 40 x 100 ft. and two 40 x 120 ft. buildings, wood construction. About $180,000. W. G. Wey, Shoshoni, engr.

Tex., Dallas—Samson Tractor Co., Keating Bldg., having plans prepared for assembling plant. About $100,000. L. F. Garlock, mgr.

Tex., Dallas—Texas Paper Co., 1200-1206 Patterson Ave., having plans prepared building 4 story, 100 x 254 ft., concrete and brick warehouse concrete foundation, on Walton and Indiana Sts. About $250,000.

Tex., Ft. Worth—L. L. Hawes, archt., Clark Ave., receives bids about Aug. 1, building large factory, here, for Simmons Co., 1347 South Michigan Ave., Chicago. About $200,000.

Industrial Works (Continued)

Ont., Ingersoll—Dominion Cone Co., Ltd., 14 Morrow Ave., Toronto, and Folding Paper Boxes, Ltd., plans to build 3 story, concrete, brick and steel factory, rein.-con flooring, concrete foundation, here. About $50,000. Architect not selected.

Ont., Toronto—Sunlight Soap Co., Eastern Ave., plans to build 3 story, rein.-con., brick and steel addition to factory, rein.-con. flooring, concrete foundation. About $350,000. Architect not selected.

Ont., Windsor — Universal Car Agency, Chatham and Pelisier St., having plans prepared by J. C. Pennington, archt., La Belle Bldg., for 2 or 3 story, rein.-con., brick and steel garage, rein.-con. flooring, concrete foundation, on Chatham St. About $75,000.

BIDS DESIRED

N. Y., Dannemora—Until July 7, by C. F. Rattigan, supt. state prisons, Capitol, Albany, building refrigeration plant and cooling rooms, for kitchen building, at Clinton Prison, here. L. F. Pilcher, state archt.; advertised in this issue.

N. Y., Ogdensburg—Until July 7, by State Hospital Comn., Capitol, Albany, altering and building addition to central heating plant, at St. Lawrence State Hospital, here. L. F. Pilcher, state archt.; advertised in this issue.

N. J., Butler—Until July 12, by Boro. Council, furnishing labor and material building addition to lighting plant. J. F. Bormuth, clk.; advertised in this issue. Noted May 27.

Pa., New Kensington—Genl. Electric Co., Erie, receiving bids building 1½ story, 70 x 260 ft., brick and steel factory, rein.-con. flooring. About $100,000. Private plans.

Pa., Pittsburgh — Flocker Motor Co., Union Arcade, receiving bids building 1 story, 75 x 100 ft. service shop and show room, concrete, brick and steel, rein.-con. flooring, on Cypress and Aspen Sts. About $50,000. W. W. Williams, Magee Bldg., archt.

Mich., Detroit—Until July 6, by Smith, Hinchman & Grylls, archts., 710 Washington Arcade, building 3 story, 101 x 155 ft., rein.-con., brick and steel service station, rein.-con. flooring, concrete foundation, for Kirby Ave. Development Co., c/o architects. Noted June 24.

Mich., Detroit—Until July 6, by H. S. Starkey, secy. Bd. Water Comrs., 232 Jefferson Ave., building 1 story, 90 x 120 ft., brick and steel machine repair shop, rein.-con. flooring, concrete foundation.

Wis., Milwaukee—W. H. Krueger Motor Car Co., 485 Jefferson St., receiving bids building 2 story, 40 x 120 ft., rein.-con. and brick garage, rein.-con. flooring, concrete foundation. About $60,000. Private plans.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Me., Biddeford** — Saco-Lowell Shop, 77 Franklin St., Boston, let contract building 1 story, 160 x 200 ft., rein.-con. and steel foundry, rein.-con. flooring, concrete foundation, here, to Aberthaw Constr. Co., 27 School St., Boston. About $250,000.

★**Mass., Boston**—W. L. Putnam and A. Lyman, 60 State St., let contract altering and building 4 story, 44 x 150 ft., brick and timber addition, to warehouse, concrete foundation, on Washington St., to N. Hurwitz, 294 Washington St. About $100,000.

★**Mass., Dorchester** (Boston P. O.)—Simons & Weiner, c/o S. S. Eisenberg, archt., 15 Court Sq., Boston, will build 1 story, 150 x 180 ft., rein.-con. garage, rein.-con. flooring, concrete foundation, on Dorchester Ave. and Faulkner St., here. About $100,000. Work will be done by day labor under supervision of architect.

★**Mass., Holyoke**—J. and W. Jolly, Inc., South East St., let contract building 2 story, 100 x 100 ft., brick and steel foundry, concrete flooring, to Casper Ranger Constr. Co., Bond St. About $75,000.

★**Mass., Lynn**—J. F. Hunt, 28 Mulberry St., will build 1 story, 90 x 150 ft., brick and steel garage, concrete flooring and foundation, on Pleasant St. About $50,000. Work will be done by day labor.

★**Mass., New Bedford**—T. M. James, archt., 3 Park St., Boston, let contract to E. A. Abbott Co., 3 Park St., Boston, altering and building 3 story, brick and mill construction addition to plant, concrete foundation, on Church St., for W. C. Jones Co., Nash Rd. About $75,000. Noted June 24.

★**Mass., Springfield**—Western Massachusetts Cadillac Co., Inc., 521 Worthington St., let contract building 1 story, 102 x 107 ft., brick, concrete and steel, garage and service station, rein.-con. flooring, concrete foundation, on State and Oak Sts., to A. W. Wylie, 599 State St. About $65,000.

★**Mass., Worcester**—Cutting, Carlton & Cutting, archts., 44 Front St., let contract to E. D. Ward Co., 52 Foster St., building 1 and 2 story, 60 x 160 ft., brick and rein.-con. garage, sales and service station, rein.-con. flooring, concrete foundation, on Park Ave., for H. J. Murch, 731 Main St. About $150,000. Noted March 18.

★**R. I., Bristol**—Jenks & Ballou archts. and engrs. 1035 Grosvenor Bldg. let contract to C. I. Bigney Constr. Co., 357 Westminster St., Providence, building 4 story, 100 x 130 ft., brick and mill construction addition to plant, concrete foundation, for Cranston Worsted Co. About $160,000. Noted June 24.

★**R. I., Woonsocket**—Glenbrook Worsted Mills let contract building 1 story, 85 x 200 ft., brick and mill construction factory, concrete foundation, on Mason St., to J. C. N. Bouvier, 189 Sayles St. About $100,000.

★**Conn. East Hartford** (Hartford P. O.)—Olds & Whipple, 166 State St., Hartford, let contract building 1 story, 180 x 220 ft., brick and steel plant with 3 story, 25 x 80 ft. ell, rein.-con. flooring, concrete foundation, here, to Austin Co., 217 Bway., New York City. About $150,000.

★**Conn., Hartford** — Amer. Cement Co., 686 Windsor Ave., will build 1 story, 50 x 275 ft. and 1 story, 40 x 140 ft., brick and terra cotta warehouse, concrete foundation. About $50,000. Work will be done by day labor.

★**N. Y., Elmhurst** (Flushing P. O.)—Factory Constr. Co., 44 Court St., Brooklyn, will build 1 story, 100 x 200 ft., brick and steel garage, rein.-con. flooring, concrete foundation, in East Elmhurst. About $100,000. Work will be done by day labor.

★**N. Y., New York**—Crotona Realty Co., 170 Bway., will build 1 story, 85 x 150 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on Southern Blvd. and 172nd St. About $50,000. Work will be done by day labor. W. Weschler, pres.

★**N. Y., New York** — J. W. Goff, 309 Bway., will build 1 story, 100 x 220 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on Jerome Ave. and 177th St. About $50,000. Work will be done by day labor.

★**N. Y., New York**—A. D. Russell, 20 Exchange Pl., let contract building 3 story, 60 x 100 ft., rein.-con. and steel stable, rein.-con. flooring, concrete foundation, at 515 West 43rd St., to J. T. Brady, 103 Park Ave. About $95,000.

★**N. Y., Olean**—See "Miscellaneous."

★**N. Y., Syracuse**—Atmospheric Nitrogen Corp., Milton Ave., let contract building 1 story brick, rein.-con. and steel plant, rein.-con. flooring, concrete foundation, on Willis Ave., to J. W. White, Eng. Corp., 43 Exch. Pl. New York City. About $500,000.

★**N. J., Carteret**—Carteret Oil & Refining Co. let contract building 1 story, 100 x 260 ft., brick and steel addition to factory, to Amer. Concrete Steel Co., 27 Clinton St., Newark. About $175,000.

★**N. J., Morristown**—Manhattan Rubber Co., Willet St., Passaic, let contract building rein.-con., brick and steel plant, rein.-con. flooring, concrete foundation, to Stone & Webster, 120 Bway., New York City. About $1,000,000.

★**Pa., Erie**—Genl. Electric Co. let contract building 1 and 2 story, 230 x 900 ft., brick and steel machine shop, rein.-con. flooring, to Hughes-Foulkrod Co., Oliver Bldg., Pittsburgh; building foundations, to H. Shenk Co., Erie. Total $1,000,000.

★**Pa., Pittsburgh**—See "Industrial Works."

★**Md., Baltimore**—Chesapeake Mfg. Co., Sharp and Barre Sts., let contract building 3 story, 42 x 125 ft., concrete and brick factory, concrete foundation, to H. S. Rippel, 1929 West Baltimore St. About $125,000.

★**Md., Baltimore** — N. Davis & Co., 19 South Front St., let contract building 3 story, 24 x 40 x 53 x 59 ft., brick and steel warehouse, rein.-con. flooring, concrete foundation, at 805-11 Plowman St., to R. H. Frazier & Son, 224 West Mulberry St. About $100,000.

★**Md., Baltimore**—Natl. Enameling & Stamping Co., Race and Ostend Sts., let contract building 3 story, 61 x 76 ft., rein.-con. and brick addition to plant, concrete foundation, to J. Waters Bldg. Co., 23 East Center St. About $100,000. Noted April 29.

★**N. C., Charlotte**—J. H. Cutter, Commercial Bank Bldg., let contract building cotton warehouse, to J. A. Jones & Co., Realty Bldg. About $300,000.

★**S. C., Charleston**—Cyclone Starter & Truck Co. let contract building 1 story, 100 x 260 ft. factory and 30 x 44 ft. boiler house, brick, steel and concrete, rein.-con. flooring, concrete foundation, to H. K. Ferguson Co., Vickers Bldg., Cleveland, O. About $200,000.

★**O., Akron**—Akron Grocery Co., Mill and Summit Sts., let contract building 5 story, 80 x 210 ft., rein.-con., brick and steel warehouse, rein.-con. flooring, concrete foundation, to Carmichael Constr. Co., 524 Hamilton Bldg. About 200,000. Noted June 3.

★**O., Cleveland** — Champion Bed Spring Co., 3717 Iron Court, let contract building 2 story, 58 x 172 ft., brick and steel factory, brick foundation, at 6500 Park Ave. to Hubert-Lear, East 37th St. and Iron Court. About $80,000. Noted June 24.

★**O., Cleveland** — Judd Automobile Co., 4601 Euclid Ave., let contract building 2 story, 120 x 235 ft., rein.-con., brick and steel garage, rein.-con. flooring, concrete foundation, on East 46th St. and Euclid Ave., to M. E. Bertram & Co., 1081 East 171st St. About $125,000. A. Henn, secy.

★**O., Cleveland**—Lake Erie Steel Co., Stop 13—A. B. C. line, let contract building 1 story, 50 x 180 ft., brick and steel addition to mill, brick foundation, to Republic Structural Iron Wks. Co., East 53rd St. About $75,000.

★**O., Cleveland**—Mechanical Rubber Co. Lisbon Rd., let contract building 1 story, 34 x 102 ft. rein.-con., brick and steel substation, rein.-con. flooring, concrete foundation, to Stone & Webster Co., Leader News Bldg. About $100,000.

★**O., East Akron** (Akron P. O.)—Northern Ohio Traction & Light Co., Terminal Bldg., Akron, let contract building car barn, here, to H. P. Moran Co., Terminal Bldg., Akron. About $93,000.

★**O., East Cleveland** (Cleveland P. O.)—Natl. Lamp Co. of General Electric Co. Nela Park, let contract building 1 story, 48 x 86 ft., rein.-con., brick and steel heating plant, rein.-con. flooring, concrete foundation, to Heller Bros., East 152nd St. and St. Clair Ave., Cleveland. About $75,000.

★**Ill., Chicago**—Stewart-Warner Speedometer Co., 1828 Diversey Parkway, let contract building 6 story, 96 x 170 ft., rein.-con. and brick factory, rein.-con. flooring, concrete foundation, at 830 Diversey Parkway, to J. Jensen & Sons, 1634 North Mozart St. About $350,000.

★**Ill., Marseilles**—Natl. Biscuit Co., 10th Ave. and 15th St., New York City, let contract building 8 story, rein.-con. and steel warehouse and factory, rein.-con. flooring, concrete foundation, here, to J. Griffiths & Son Co., 112 West Adams St., Chicago. About $900,000. Noted June 3.

★**Ia., Cedar Rapids**—H. T. Hedges let contract building 1 story, brick and steel garage and repair shop, concrete flooring and foundation, to T. Stark & Co., Cedar Rapids. About $50,000.

★**Ia., Muscatine**—Muscatine Packing Co. let contract constructing plant, to include 50 x 100 ft. manufacturing building, 100 x 200 ft. cold storage, and 70 x 85 ft abattoir, all 5 story, also office building and stock pens, rein.-con., brick and steel, rein.-con. flooring, concrete foundation, to Federation Constr. Co., Sioux City. About $1,000,000; cost plus percentage basis.

★**Mo., Kansas City**—Quality Ice Co., 4th and Oak Sts., will build 2 story, 50 x 90 ft., rein.-con. storage pl., rein.-con. flooring. About $50,000. Work will be done by day labor.

★**Mo., Kansas City** — Tarbett & Sornell archts., Republic Bldg., let contract building 3 story, 112 x 142 ft., rein.con., brick and stone garage, rein.-con. flooring, concrete foundation, on 10th and Wyandotte Sts., to Pratt & Thompson, Republic Bldg. Owner's name withheld.

★**Mo., St. Louis**—Blanton Oleomargarine Co., 1st and Spruce Sts., let contract building 5 story, 72 x 151 ft., rein.-con. and brick plant and power house, to Kellerman Contg. Co., International Life Bldg. About $300,000.

Buildings

PROPOSED WORK

Mass., Agawam — Church — St. William Roman Catholic Society, Springfield, plans to build church, here. About $100,000. T. D. Beaver, bishop. Architect not selected.

Mass., Attleboro—Bank and Office—W. R. Walker & Son, archts., 17 Custom House St., Providence, R. I., soon let contract building 5 story, 60 x 140 ft., brick, concrete and steel, rein.-con. flooring, concrete foundation, on Park St., for 1st Natl. Bank, Main St. About $175,000. Noted May 27.

Mass., Brookline — Sales — C. Allbright, archt., 6 Beacon St., Boston, soon lets contract building 2 story, 100 x 270 ft., brick and limestone, rein.-con. flooring, concrete foundation, on Commonwealth and St. Paul Sts., here, for D. Cerussi, 15 Exchange St., Boston. About $200,000. Noted May 27.

Mass., Fitchburg—School—School Comn. having plans prepared by S. W. Haynes, archt., Main St., for 3 story, brick and steel, on Academy and Elm Sts. About $400,000.

Mass., Readville (Boston P. O.)—Church—Maginnis & Walsh, archts., 100 Boylston St., Boston, soon lets contract building 1 story, brick or stone, rock or concrete foundation, on West Milton St., for St. Anne Roman Catholic Society. About $100,000. D. F. Regan, pastor. Noted June 10.

Buildings (Continued)

Conn., Winsted — Society — Knights of Columbus, Main St., plans to construct 2 story, 75 x 160 ft., brick and concrete. About $100,000. Architect not selected.

N. Y., Batavia—School—City voted $153,000 bonds to improve William and East Main St. Schools and convert Knights of Columbus clubhouse on Bank St. into school. Noted June 10.

N. Y., Brooklyn—Bank—Koch & Wagner, archts. and engrs., 32 Court St., receive bids about July 10, building 1 story, 50 x 100 ft., brick, steel and stone, brick foundation, on Bedford and DeKalb Aves., for East Brooklyn Saving Bank, 643 Myrtle Ave. About $110,000.

N. Y., Lackawanna — Community — City issued $100,000 bonds to build community house. J. O'Connor, city clk.

Pa., Charleroi—Bank—First Natl. Bank of Charleroi having plans prepared by W. L. Stoddart, archt. and engr., 9 East 40th St., New York City, for altering brick and stone, brick foundation. About $500,000.

Pa., Erie—Bank—Second Natl. Bank, 8th and State Sts., soon lets contract building 1 story, 60 x 130 ft., brick and stone, brick foundation, on 9th St. About $400,000. W. L. Stoddart, 9 East 40th St., New York City, archt. and engr. Noted March 4.

Pa., Wilkes-Barre — Clubhouse — City plans to build brick culbhouse, rock foundation, in Hollenback Park. About $120,000. Architect not selected.

Md., Baltimore—Bank and Office—Natl. Bank of Baltimore, Baltimore and St. Paul Sts., has purchased site adjoining present building and plans to construct 20 story. T. R. Thomas, pres.

Md., Baltimore—Temple—Maryland Lodge A. F. & A. M. having plans prepared by C. N. Friz, archt., 1523 Munsey Bldg., for enlarging present building on St. Paul St. About $2,000,000.

Md., Baltimore—Theatre, Store, etc.—F. H. Keiser, Pottstown, Pa., receives bids about July 12 building 2 and 3 story, 90 x 172 ft., concrete and brick, rein.-con. flooring, concrete foundation, at 1317-33 Pennsylvania Ave., here. About $200,000. Lockman & Murphy, 356 Drexel Bldg., Phila., archts. Noted May 13.

W. Va., New Cumberland—Courthouse—Hancock Co. election July 19, to vote on $110,000 bonds to build new 2 story courthouse on Square.

O., Akron—Hotel—C. Brill plans to build 6 story, 150 room hotel, on East Market St. About $300,000.

O., Akron—Hotel and Theatre—J. Eberson., archt., 64 East Van Buren St., Chicago, Ill., receives bids about Sept. 1 building 10 story, 133 x 225 ft. hotel and 1 story, 109 x 185 ft. theatre, rein.-con. and brick, rein.-con. flooring, concrete foundation, for Akron Prospect Co. About $1,250,000.

O., Cleveland—High Schools—Bd. Educ., East 6th St. and Rockwell Ave., plans to build four 3 story, 30 room, brick, steel and concrete, Junior High Schools, rein.-con. floorings, concrete foundations, one on East 116th and Corbett Sts., one on Holmes Ave., one on Hyde Ave. and West 44th St., and other in Woodland Hills Park. About $2,000,000 each. W. R. McCormack, East 6th St. and Rockwell Ave., archt.

O., Cleveland — Hotel — B. Lederman, 10709 Pasadena Ave., having plans prepared by M. Weiss, archt., 618 Union Bldg., for 6 story, 60 x 200 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on East 105th St. and Euclid Ave. About $500,000.

O., Cleveland—Schools—Bd. Educ., East 6th St. and Rockwell Ave., plans to build two 3 story, 16 room, rein.-con., steel and brick, rein.-con. flooring, concrete foundation, one on East 175th St. near St. Clair Ave. and one on East 145th St. and Castalia Ave. About $750,000 each. W. R. McCormack, East 6th St. and Rockwell Ave., archt.

O., Cleveland—School—Church of The Holy Family, East 131st St. and Chapelside Ave., having plans prepared by W. Koehl, archt., 906 Park Bldg., for 3 story, 12 room, rein.-con. and brick, concrete foundation. About $125,000.

O., Euclid — Convent — Good Shepherd Sisters, East 30th St. and Carnegie Ave., purchased site and plan to build 3 story, rein.-con., brick and steel, rein.-con flooring, concrete foundation, at Stop 10½ Euclid Ave. About $300,000. Architect not selected.

O., Springfield—Schools—Bd. Educ. having plans prepared by O. D. Howard, archt., 8 East Broad St., Columbus, for remodeling 2 story, school, on Fulton St., also building 2 story, 110 x 128 ft., brick, stone and concrete, on Maiden Lane. About $100,000 and $225,000 respectively.

O., Youngstown — Office — L. J. Hunter, atty., L. Miller, archt., 359 Arlington St., and J. P. Francis, 1112 Wick Bldg. (representing stock company), acquired option on lease and plan to build 10 or 12 story, on Boardman and Phelps Sts. About $600,000.

Mich., Detroit — Club House — Amity Lodge, I. O. O. F., 35 Vincennes St., having plans prepared by A. Clubb, archt., Goebel Bldg., for 4 story, 50 x 100 ft., brick, rein.-con. and steel, rein.-con. flooring, concrete foundation, on Vincennes St. About $120,000.

Mich., Detroit—Home—Old Folks' Jewish Home, c/o I. M. Lewis, archt., Congress Bldg., having plans prepared for 2 story, 50 x 90 ft., brick, concrete and steel, brick foundation, on Edmund Pl. About $100,000.

Ill., Chicago—Office, etc.—J. F. Jelke Co., 759 South Washtenaw Ave., having plans prepared by Graham, Anderson, Probst & White, archts., 1417 Ry. Exch. Bldg., for office building and garage, each 2 story, 112 x 120 ft., concrete, steel and brick, concrete foundations, on Washtenaw Ave. and Polk St. About $600,000.

Ill., Chicago—Office—Standard Oil Co. of Indiana, 910 South Michigan Ave., had plans prepared by Marshall & Fox, archts., 721 North Michigan Ave., for 9 story, 133 x 238 ft. rein.-con., steel and brick, concrete foundation. About $1,250,000.

Wis., Milwaukee—Store—E. Schuster & Co., 12th and Vliet Sts., rejected bids building 3 story, 150 x 150 ft. addition. About $250,000. Work will be readvertised. Noted May 13.

Wis., Two Rivers — High School — Bd. Educ. receives bids about Aug. 15 building 3 story, 144 x 198 ft. rein.-con. brick, steel and hollow tile, brick foundation. About $400,000. J. D. Chubb, Dearborn St., Chicago, Ill., archt. Noted Jan. 8.

Kan., Ft. Scott—Church—Hawk & Parr, archts., 501 Sec. Bldg., Oklahoma, Okla., soon receives bids building 2 story, 60 x 105 ft., brick and stone. About $100,000.

Mo., Springfield — Schools — Bd. Educ. plans to sell $600,000 bonds to build and equip schools. E. J. Hoffman, secy.

Okla., Shawnee—High School—Bd. Educ. having plans prepared by A. C. Davis & Son, archts., Shawnee, for 3 story, 75 x 170 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation. About $200,000.

Col., Craig—Bank—Craig Natl. Bank plans to build 2 story bank. About $130,000.

Col., Colorado Springs—Home—International Typographical Union, 221 Hagerman Bldg., plans to build an addition to Union Printers' Home. About $200,000.

Que., Dixie—Club House—Royal Montreal Golf Club soon receives bids building rein.-con. and steel, on Lake Shore, here. About $450,000.

Ont., Kingston—School—Dominion Government voted $265,000 bonds to build 3 story concrete and steel addition to Royal Military College, Barriefield St., rein.-con. flooring, concrete foundation.

Ont., Kitchener — Theatre — Lasky Film Corp., King St., plans to build 1 story, rein.-con., brick, steel and stone, rein.-con. flooring, concrete foundation. About $350,000. Architect not selected.

Ont., Ottawa—Store—L. R. Steel Co., 323 Washington St., Buffalo, N. Y., plans to build store on Sparks St. About $200,000.

Ont., Peterboro — Exhibition — Peterboro Industrial Exhibition having plans prepared by W. G. Barry, archt., 539 Gilbert St., for 1 story, 100 x 300 ft., concrete, brick and steel, concrete foundation. About $120,000. A. Denne, pres.

Ont., Toronto—School—Separate School Bd., 67 Bond St., having plans prepared by C. J. Reade, archt., 67 Bond St., for 2 story, 12 room, brick, concrete and steel, rein.-con. flooring, concrete foundation, on Beverly St. About $160,000.

Ont., Toronto—School—Bd. Educ., College St., plans to build 3 story, 30 room, rein.-con., brick, steel and stone, rein.-con. flooring, concrete foundation, on Greenwood Ave. About $400,000. Address, A. McKay, Central Technical School. Architect not selected.

BIDS DESIRED

Mass., Mattapan (Boston P. O.)—Dining Room—Until July 13, by Commonwealth of Massachusetts, Comm. of Mental Diseases, 36 State House, Boston, building 2 story, brick and concrete, rein.-con. flooring, concrete foundation (west group), at State Hospital, here. About $200,000. Kendall, Taylor & Co., 93 Federal St., Boston, archts. and engrs. Noted June 24.

Mass., Watertown (Boston P. O.)—Bank—Until July 6, by Union Market Natl. Bank, building 1 story, 45 x 71 x 80 x 105 ft., triangular shaped. Dennison & Hirons, 475 5th Ave., New York City, archts.

N. J., Roselle Park (Elizabeth P. O.)—School—Until July 20, by Bd. Educ., at Robert Gordon School, building Addition to School. W. G. Elicker, dist. clk.; advertised in this issue. Noted June 17.

Pa., Uniontown—Store—Until July 7, by A. Kahn, archt., Marquette Bldg., Detroit, for 9 story, 38 x 56 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on Gallatin Ave. and Main St., for Aaron Furniture Co. Noted June 10.

W. Va., Morgantown—Bank and Office—Monongahela Bldg. Co. receiving bids building 8 story, 78 x 86 ft., brick, steel and limestone, rein.-con. flooring, on High and Court Sts. About $250,000. S. F. Heckert, Bessemer Bldg., Pittsburgh, Pa., archt.

Fla., Gainesville—Schools—Until July 9, by E. R. Simmons, supt. Alachua Co. Public Schools, building 170 x 230 ft. high school and 66 x 267 ft. grade school, brick, tile, terra cotta or stone and stucco. Total cost, $300,000. About $150,000 now available.

N. C., Wake Forest—Hotel—Until July 15, by R. W. Warren, building hotel. About $100,000. F. B. Simpson, Raleigh, archt.

N. C., Wilmington—Church—Until July 15, by Bd. Trustees building 3 story, 54 x 120 ft addition to 1st Baptist Church. About $100,000. H. L. King, Richmond, Va., archt.

O., Brookville—High School, etc.—Until July 9, by Bd. Educ., c/o C. S. Prass, clk., furnishing labor and material for building 2 story, fireproof high school, including auditorium and gymnasium.

Ill., Amboy—Bank—D. H. Burnham & Co., archts., 209 South La Salle St., Chicago, receiving bids building 1 and 2 story, 50 x 100 ft., brick and timber, concrete foundation, for 1st Natl. Bank. About $100,000. Noted May 13.

Ia., Collins—School—Until July 9, by Bd. Educ., building 2 story, 68 x 109 ft., brick, rein.-con. and steel, concrete foundation. About $120,000. T. Thorson, Forest City, archt. Noted May 13.

Ia., McCallsburg — School — Until July 8 by Bd. Educ., building 60 x 100 ft., rein.-con. and brick. About $110,000. W. L. Pedicord, Iowa Falls, archt.

Minn., St. Paul—School—Until July 12, by City Clerk, building 2 story, 60 x 128 ft., rein.-con. and brick addition, on Randolph Heights. About $100,000. C. A. Haulser, City Hall, archt. Noted Jan. 1.

Kan., Linwood—High School—Bd. Educ. Dist. 2, receiving bids building 3 story, 58 x 100 ft., brick, rein.-con. and steel, rein.-con. flooring, concrete foundation. About $110,000. W. E. Hulse & Co., Hoke Bldg., Hutchinson, archts. Noted May 13.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Vt., Springfield—School—School Bd. let contract building 2 story, 60 x 75 ft., brick and steel, concrete foundation, to Allen Bros., Amherst, Mass. About $100,000.

★Mass., Boston — School — School Dept. let contract building 2 story addition to Michael Angelo School, brick, concrete and steel, rein.-con. flooring, concrete foundation, on Charter St., to J. Bowen Co., 181 Dudley St., Roxbury, $247,000. Noted June 17.

★Mass., Cambridge — School — Buckingham School Corp. let contract building 2 story, 75 x 130 ft., brick, concrete and steel, rein.-con. flooring, concrete foundation, on Buckingham and Parker Sts., to F. L. and C. E. Whitcomb, 17 Warehouse St., Boston. About $100,000.

★Mass., Lowell—Saco-Lowell Shops, 77 Franklin St., Boston, let contract building 1 story, 130 x 140 ft., brick and steel foundry, rein.-con. flooring, concrete foundation, on Walker St., here, to D. H. Walker, 529 Dutton St. About $100,000.

★Mass., Taunton—Theatre and Stores—H. P. Groves, archt., 40 Middlesex St., Lowell, let contract to Weiss Constr. Co., 40 Court St., Boston, building 2 story, brick and mill construction, concrete foundation for Black-Spitz Theatres, Inc. Cost between $150,000 and $175,000. Noted May 18.

★R. I., Arctic—Theatre—H. P. Groves, archt., 40 Middlesex St., Lowell, Mass., let contract to Weiss Constr. Co., 40 Court St., Boston, building 2 story, 67 x 138 ft., brick and steel, concrete foundation, here, for Black-Spitz Theatres, Inc., Taunton, Mass. About $150,000. Noted June 24.

★R. I., Lonsdale (Pawtucket P. O.)—Housing—Lonsdale Co. let contract building one 28 x 97 ft., two 26 x 44 ft. and one 26 x 120 ft., brick and timber houses for workmen, concrete foundations, to J. W. Bishop Co., Butler Exch., Providence. About $125,000.

★N. Y., Brooklyn — Church, etc. — St. Michael Church, c/o G. E. Steinbach, archt. and engr., 157 West 74th St., New York City, let contract building 1 and 3 story, 80 x 82 ft. and 30 x 195 ft., brick and stone church and monastery, brick foundations, on Atlantic Ave., to A. Wischerth, 518 Jamaica Ave., Jamaica. About $175,000.

Buildings (Continued)

★N. Y., New York—Bank and Office—State Bank, 363 Stone Ave., Brooklyn, let contract building 6 story, 25 x 100 ft., brick and stone, brick foundation, at 349 West 34th St., here, to J. F. Meehan, 224 West 34th St. About $100,000. Noted May 13.

★N. Y., New York — Courthouse — Bd. Estimate, Municipal Bldg., let contract building brick, steel and stone, concrete foundation, on Centre, Worth, Baxter and Pearl Sts., to Rodgers & Hagerty, Inc., 103 East 125th St., $1,900,000. Noted June 3.

★N. Y., New York—Office—C. Banks, 14 West 40th St., let contract building 16 story, brick, steel and stone, concrete foundation, on 40th St. near 6th Ave., to Leddy & Moore, 105 West 40th St.

★N. Y., New York—Office—Natl. Park Real Estate Corp., 32 Union Sq., will build 16 story, brick, steel and stone, concrete foundation, at 7-11 Water St. Work will be done by day labor. Noted April 15.

N. J., Trenton—Capitol—State Comrs. received bids June 22, for general contract building east wing, 4 story, 50 x 300 ft., rein.-con., brick, steel and limestone, rein.-con. flooring, on West State St., from L. Dow Eng. Co., 43 West 47th St., New York City, $473,994; Standard Constr. Co., 1713 Sansom St., Phila., $484,600. Noted June 10.

N. J., Vineland—Dormitory—State Comrs. Trenton, received bids June 22, for general contract building 3 story, 53 x 104 ft., rein.-con., brick and steel, rein.-con. flooring, at Feeble Minded Institute here, from G. W. Shaner & Sons, Palmyra, $108,030; W. R. Graham and J. H. Wells, 3649 Filbert St., Phila., $110,449; J. D. Pasquale, Vineland, $117,556. Noted June 10.

★Pa., Pittsburgh—Sales and Service—Highland Automobile Co., 5928 Penn Ave., let contract building 2 and 3 story, brick and steel, rein.-con. flooring, on Liberty St. and Central Ave., to Toupet, Biel & Conley, 5814 Ellsworth Ave. About $400,000.

★Md., Baltimore—Exchange—Chesapeake & Potomac Telephone Co., 5 Light St., let contract building concrete, brick and stone, concrete foundation, on Kate Ave., to Frainie Bros. & Haigley, 18 Clay St. Cost, including equipment, $250,000. Noted June 3.

★S. C., Charleston — Infirmary — Todd, Simmons & Todd, archts., Broad St., let contract to McDevitt & Fleming Co., 309-11 1st Natl. Bank Bldg., Chattanooga, Tenn., constructing Thompson Memorial Infirmary, on Calhoun and President Sts., 3 story, 35 x 102 ft., brick. About $125,000. Noted Nov. 27.

★O., Canton—School—Bd. Educ. let excavating, masonry, steel, fire proofing, roofing and carpentry work contracts for 2 story, 150 x 250 ft. yellow buff brick and limestone, on 14th St. and Oxford Ave., to R. H. Evans Co., Tuscarawas St. W., $179,024. Noted June 3.

★O., Cleveland — Hotel — I. Margolin, 10527 Churchill Ave., let carpentry contract building 8 story, 45 x 220 ft., brick, steel and concrete, rein.-con. flooring, concrete foundation, on East Blvd., to P. Marcolin, 8023 Central Ave.; masonry work will be done by day labor. About $1,500,000. Noted April 29.

★Mich., Grand Rapids—School—St. Adelbert Church let contract building 3 story, 120 x 220 ft., concrete, brick and steel, rein.-con. flooring, concrete foundation, to J. McNabb & Son, 202 Murray Bldg.

★Ill., Chicago—Bank—Albany Park Natl. Bank, c/o C. Hatzfeld, archt., 7 South Dearborn St., let contract building 1 story, 50 x 125 ft., concrete and brick, concrete foundation, on Bernard and Lawrence Aves., to C. W. Gindale, 3333 LaSalle St. About $100,000. Noted May 13.

★Ill., Elgin—Horological—Elgin Natl. Watch Co. let masonry contract for 3 story, 50 x 118 ft. brick, stone and terra cotta, rock foundation, on Grove Ave., to Giertz & Sons; carpentry contract, to F. L. Ackman, both of Elgin. Total cost, $100,000.

★Ia., Iowa City—Store—H. E. Hunter, archt., Cedar Rapids, let contract building brick and steel, concrete foundation, to T. Stark & Co., Cedar Rapids. About $125,000. Owner's name withheld.

Minn., Minneapolis — Chemistry — D. F. Mullen, secy. State Bd. Control, St. Paul, received bids June 15, building 3 story, rein.-con., brick and Bedford stone addition, at University of Minnesota, here, from Gauger-Korsmo Constr. Co., 301 Endicott Bldg., St. Paul, $225,994, J. Peterson, 3152 10th Ave. S., Minneapolis, $247,800, J. and W. A. Elliott, 906 Lumber Exch. Bldg., $254,725.

★Minn., Minneapolis—School—Bd. Educ. let general contract building Miles Standish School, 2 story, 75 x 229 ft., on 22nd Ave. S., to Madsen Constr. Co., 848 Builders Exch., $162,477, heating, to H. Kelly & Co., 927 Plymouth Bldg., $30,135; general contract building Minnehaha School, 2 story, 75 x 210 ft. on 31st St. and 29th Ave., to F. G. McMillan, 2 Southeast 5th St., $145,448, heating and ventilating, to Bjorkman Bros., 712 South 10th St., $29,025.

★Minn., Jordan—School—Bd. Educ. let contract building 2 story, 67 x 110 ft. rein.-con. to Bracker Constr. Co., 638 Builders Exch. Bldg., Minneapolis. About $100,000; cost plus percentage basis.

★Mo., St. Louis—School—Bd. Educ., 911 Locust St., let contract building 2 story, 132 x 175 ft., rein.-con. and brick, at 226 South Euclid St., to Kellerman Contg. Co., International Life Bldg. About $312,000.

★Okla., Frederick—Court House—Tillman Co. let contract building 4 story, rein.-con., brick and steel, rein.-con. flooring, concrete foundation, to C. M. Dunning Constr. Co., Oklahoma. About $250,000; cost plus percentage basis. Noted June 3.

★Wash., Seattle—School—Bd. Educ. let contract building 3 story, concrete and brick, at foot of Holly St., to Butler Constr. Co., Central Bldg., $103,425.

★Ont., Sudbury—High School—Bd. Educ. let contract building 3 story, 11 room, rein.-con., brick and steel, rein.-con. flooring, concrete foundation, to Sherwood & Sherwood, Harbor Bldg., Toronto. About $225,000. Noted May 13.

★Ont., Sudbury—School—Bd. Educ. let contract building 2 story, 8 room, concrete, brick and steel, rock foundation, to Linklator & Jackson, Stafford Bldg. About $100,000.

★Ont., Toronto—Hotel—United Hotels Ltd., King Edward Hotel, let general contract building 20 story, 500 room, rein.-con., brick and steel addition, rein.-con. flooring, concrete foundation, on King St., E., to P. H. Secord & Sons, 133 Nelson St., Brantford. About $2,000,000; cost plus percentage basis. Noted Apr. 15.

Federal Government Work

PROPOSED WORK

Conn., New London—Relaying Water Line—Spec. 4244—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to relay water line from Colver Pond to Submarine Base, here. About $7,000.

N. J., Lakehurst — Electric Traveling Platforms and Hoists—Spec. 4233—Bureau Yards & Docks, Navy Dept., Wash., D. C., received no bids building for dirigible hangar, at Naval Air. Sta., here. Noted June 17.

BIDS DESIRED

N. Y., Buffalo—Sand, Gravel, Crushed Limestone, etc.—Until July 8, by Supt. Lighthouses, furnishing and delivering sand, gravel, crushed limestone and 500 bbl. American Portland cement, at Fairport Harbor, O.; advertised in this issue.

N. Y., Oswego—Alterations to Post Office and Customhouse—Until July 15, by Treas. Dept., Wash., D. C., altering, here. J. A. Wetmore, superv. archt.

Pa., Pittsburgh—Steel Hull Derrick Boat—Until July 14, by U. S. Engr. Office, 2111 Farmers Bank Bldg., furnishing and delivering one 50 ton non-propelling steel hull derrick boat; advertised in this sisue.

Del., Lewes—Boiler—Until July 22, by Treas. Dept., Wash., D. C., removing 2 boilers and furnishing and installing one 40 h.p. vertical tubular, high pressure boiler, at U. S. Quarantine Sta., Delaware Breakwater, here.

D. C., Wash.—Altering Building—Until July 6, by Treas. Dept., altering on northeast corner 15th and E Sts. J. A. Wetmore, superv. archt.

D. C., Wash. — Repairing Asphalt Pavements—Until July 12, by Dist. Comrs., 509 Dist. Bldg., repairing for 1 and 2 year period, beginning July 1, 1920; advertised in this issue.

D. C., Wash.—Sheet Asphalt Pavements—Until July 12, by Dist. Comrs., 509 Dist. Bldg., laying 65,000 sq.yd. sheet asphalt pavements; advertised in this issue.

Va., Front Royal—Post Office—Until Aug. 13, by Treas. Dept., Wash., D. C., building, here. J. A. Wetmore, superv. archt.

La., New Orleans—Widening and Deepening—Until July 30, by U. S Engr. Office, Custom House, widening and deepening portion of Intracoastal Waterway between Calcasieu River, La., and Sabine River, La. and Tex.; advertised in this issue.

La., Opelousas—Removing Old Conduit, etc.—Until July 5, by Treas. Dept., Wash., D. C., removing old conduit, wiring and lighting fixtures and furnishing and installing new ones, in U. S. Courthouse and Post Office, here. J. A. Wetmore, superv. archt.

O., Cleveland—Removing Present Conduit, etc.—Until July 15, by Treas. Dept., Wash., D. C., removing present conduit, wiring and lighting fixtures and furnishing and installing new ones, at U. S. Marine Hospital, here. J. A. Wetmore, superv. archt.

O., Cleveland—Repairing Breakwater and Placing Riprap—Until July 19, by U. S. Engr. Office, Federal Bldg., repairing rubble mound east breakwater and placing riprap in front of west breakwater, at Cleveland Harbor. Former bids rejected; advertised in this issue. Noted June 24.

Ia., Des Moines—Remodeling Post Office—Until July 20, by Treas. Dept., Wash., D. C., remodeling, here. J. A. Wetmore, superv. archt.

Mo., St. Louis—Repairing Boiler Plant—Until July 16, by Treas. Dept., Wash., D. C., repairing, at U. S. Marine Hospital, here.

Utah, Park City—Post Office—Until Aug. 2, by Treas. Dept., Wash., D. C., building, here. J. A. Wetmore, superv. archt.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Me., Ft. Williams—Wire Fence—U. S. Engr. Office, War Dept., Wash., D. C., let contract building, here, to C. Profenno, Portland, $14,240.

★R. I., Newport—Hangar, Wooden Pier, etc.—Spec. 4152—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building hangar, wooden pier and foundation for kite balloon hangar, at Naval Air Sta., here, to Hyde & Baxter, 711 13th St., N.W., Wash., D. C., $34,000 (120 days). Noted June 10.

★R. I., Providence—Dredging—U. S. Engr. Office let contract dredging in Housatonic River, Conn., to T. A. Scott Co., Inc., 2929 Pequot Ave., New London, Conn., $9,600. Noted May 27.

★R. I., Providence—Maintenance Dredging—U. S. Engr. Office let contract for maintenance dredging at Saybrook Bar, at mouth of Connecticut River, Conn., to J. S. Packard Dredging Co., 1004 Turks Head Bank Bldg., $51,450. Noted May 20.

★N. Y., Rockaway — Elevating and Extending Marine Railway—Spec. 4184—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract elevating and extending marine railway, at Naval Air Sta., here, to A. M. Hazel, 26 Courtlandt St., New York City, $11,873 (90 days). Noted June 10.

N. J., Cape May—Repairing Power House Equipment—Spec. 4235—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids repairing at U. S. Naval Section Base, here, from G. E. Eng. Co., 22 Leight St., New York City, $5,482 (90 days); C. S. Curtis, Cape May, $3,552 (75 days). F. J. Eisinger, 141 7th Ave., Brooklyn, $4,281 (90 days).

★N. J., Lakehurst—Power Plant Equipment—Spec. 4128—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract furnishing and installing at Naval Air Sta., here, to Lord Electric Co., 105 West 40th St, New York City, $391,205 (300 days). Noted June 10.

★N. J., Lakehurst—Quarters Shop and Power House—Spec. 4082—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract constructing at Naval Air Sta., here, to Hughes Foulkrod Co., 1406 Commonwealth Trust Bldg., Phila., $477,000 (240 days). Noted June 10.

★Pa., Phila.—Fence and Gates—Spec. 4187—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building at Navy Yard Hospital, here, to Cyclone Fence Co., 403 Stock Exch. Bldg., $52,052. Noted June 17.

Pa., Phila.—Mattress Factory—Spec. 4163—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 23, building, here, (1) work complete, from M. Melody & Son, 1322 Race St., (late bid), (1) $167,800, (1a) $164,284, (1b) $157,885, (3) add $50, deduct $21.25, (4) add $1.75, deduct $.85; T. Reilly Co., 1616 Thompson St., (1) $176,943 (210 days), (2) deduct $2,000, (1a) deduct $7,400, (1b and 2a) deduct $14,800 (10 days), (2) $2 deduct $.75; Hughes Faulkrod Co., 1406 Commonwealth Trust Bldg., (1) $179,100 (240 days), (2) $176,200 (240 days), (1a) $7,346, (1b and 2a) $14,518, (2b) $15,268, (3) add $60, deduct $40, (4) add $2.10, deduct $.65; W. R. Dougherty, 1608 Sansom St., (1) $200,137 (240 days), (2) $197,667 (240 days), (1a) $8,000, (1b) $16,000, (3) add $60, deduct $26, (4) add $2, deduct $.75. Noted June 17.

★Pa., Phila.—Repairing Roof Coverings—Spec 4231—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract, repairing of storehouse 332, to Warren Ehret Co., 36th St. and Grays Ferry Ave., $3,989 (45 days). Noted June 17.

★Pa., Phila. — Resurfacing Macadam Roads—Spec. 4230—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract, to Curtis Bro., Sharon Bldg., Tacony, $3,732 (30 days). Noted June 17.

Federal Government Work (Continued)

★**Pa., Phila.**—Steam Distributing System—Spec. 4220—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract, installing in main eastern section, here, to W. G. Cornell Co., Colonial Trust Bldg., $16,270 (120 days). Noted June 17.

★**D. C., Anacostia** — Main Interceptor — Dist. Comrs., 509 Dist. Bldg., Wash., D. C., let contract building in Sewer Sect. 12, to W. F. Brenizer, 101 New York Ave., N.E., Wash., D. C., $4,800.

D. C., Wash.—Alterations and Additions to Laboratory—Spec. 4182—Bureau Yards & Docks, Navy Dept., Wash., D. C., received only bid altering and building additions to aeronautical engine testing laboratory, at Navy Yard, from Hyde & Baxter, 711 13th St., N. W., $14,990 (140 days).

★**D. C., Wash.**—Conduit—U. S. Eng. Office, War Dept., let contract furnishing 2 in. fibre, to Fibre Conduit Co., Orangeburg, N. Y., $7,558.

★**D. C., Wash.**—Searchlight Towers—U. S. Eng. Office, War Dept., let contract furnishing 3 steel searchlight towers, to Cleveland Iron Wks., Baltimore, Md., $11,192.

★**D. C., Wash.** — Trunk Sewer — Dist. Comrs., 509 Dist. Bldg., let contract building trunk sewers in Connecticut Ave. between Kanawha and McKinley Sts., to W. F. Brenizer, 101 New York Ave., N.E., $30,000.

Va., Hampton—Steel Hangar, Barracks, etc.—Constr. Div., War Dept., Wash., D. C., received bids June 25, constructing (1) buildings, (2) roads, (3) sewers and water systems, (4) work complete, from Stang & Mitchell, Phila., (4) $914,000; P. F. Gormely Constr. Co., Union Trust Bldg., Wash., D. C., (1) $635,000, (2) $127,000, (3) $162,000, (4) $930,000; G. E. Wyne, Home Life Bldg. Wash., D. C., (1) $676,000, (4) $989,000; Boyle-Robertson Constr. Co., Evans Bldg., Wash., D. C., (1) $701,996, (2) $140,648, (3) $157,340, (4) $999,984; W. Curridor Constr. Co., Norfolk, (1) $117,700. Noted May 13.

★**Va., Hampton Roads** — Landing Platform—Spec. 4223—Bureau Yards & Docks, Navy Dept., Wash., D. C., building, at Naval Air Sta., here, to Hyde & Baxter, 711 13th St., N.W., Wash., D. C., $49,890 (150 days). Noted June 10.

Va., Norfolk—Mechanical Equipment—Treas. Dept., Wash., D. C., received bids June 21, installing, at health hospital, Sewell's Point, here, from S. W. Rittenhouse, 1316 Harvard St., N. W., Wash., D. C., $165,863, alternate 1, deduct $2,139, (2) add $1,366; W. G. Cornell Co., 923 12th St., N. W., Wash., D. C., $190,500 alternate (1) deduct $2,860, (2) $150; G. E. Eng. Co., 22 Leight St., New York City, $197,982, alternate (1) deduct $2,880, (2) deduct $500. Noted June 3.

★**Va., Norfolk**—Roads and Walks—Spec. 4203—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building, at Naval Hospital, here, to G. E. Eng. Co., 22 Leight St., New York City, $29,934 (120 days). Noted June 17.

★**Va., Quantico** — Roads and Altering Buildings — Spec. 4202 — Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract constructing concrete roads and altering buildings, here, to McLean Contg. Co., Fidelity Bldg., Baltimore, Md., $164,498 (180 days). Noted June 17.

★**Va., Quantico**—Storehouses, Garage and Kite Balloon Hangar—Spec. 4225—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building at Marine Flying Field, here to McLean Contg. Co., 1415 Fidelity Bldg., Baltimore, Md., $42,000 (150 days). Noted June 10.

W. Va., South Charleston — Railroad Track Scales—Spec. 4207—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 23, furnishing and installing, at Naval Ordnance Plant, here, (1) work complete, from Strait Scale Co., Shauney and Adams Sts., Kansas City, Kan., (1) $10,340 (120 days), (2) $3,270 (100 days), (3) $1,170 (100 days), (4) $1,490 (90 days), (5) $630 (80 days), (6) $220 (80 days), (7) $1.50; Fairbanks Scale Co., 416 Broome St., New York City, (1) $1,749, (2) $17,300, f.o.b. Noted June 10.

★**S. C., Charleston**—Gyro Room and Torpedo Racks—Spec. 4159—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract, building, here, to Donnell-Zane, 350 Bway., New York City, $15,393 (120 days).

★**S. C., Paris Island**—Automatic Sprinkler System—Spec. 4213—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract installing at Marine Barracks, here, to Globe Automatic Co., 2035 Washington Ave., Phila., $32,800. Noted June 10.

★**S. C., Paris Island**—Concrete Walks—Spec. 4206—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building additions, at Marine Barracks, here, to Newport Contg. & Eng. Co., Law Bldg., Newport News, Va., $13,000 (100 days). Noted June 10.

★**S. C., Paris Island**—Fresh Water Main—Spec. 4219—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract installing 8 in. at Marine Training Camp, here, to Noland Clifford Co., 330 28th St., Newport News, Va., $54,789 (150 days). Noted June 10.

★**S. C., Paris Island**—Overhang and Gratings—Bureau Yards & Docks Navy Dept., Wash., D. C., let contract for overhang on north side of Bldg. 11 and gratings for buildings at Marine Barracks, here, to Newport News Contg. & Eng. Co., Law Bldg., Newport News, Va., $23,217 (120 days). Noted June 24.

S. C., Paris Island — Power Plant Improvements—Spec. 4211—Bureau Yards & Docks, Navy Dept., Wash., D. C., received only bid June 21, improving at Marine Barracks, here, (1) work complete, from Noland Clifford, 330 28th St., Newport News, Va., (1) $149,452 (225 days), (2) deduct $2,000, (3) $5,000. Noted June 10.

★**S. C., Paris Island**—Remodeling Quarters and Fireproofing Buildings—Spec. 4212—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract remodeling and fireproofing, at Marine Barracks, here, to Newport News Contg. Co., Law Bldg., Newport News, Va., $56,689 (150 days). Noted June 17.

★**S. C., Paris Island**—Repairs to Roof—Spec. 4238—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract repairing roofs of various buildings at Marine Corps Barracks, here, to Newport Contg. & Eng. Co., Inc., Law Bldg., Newport News, Va., $22,680.

★**Fla., Pensacola**—Additional Stowage—Spec. 4170—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract installing, in existing torpedo storehouse, here, to C. H. Turner Co., 17½ South Palafox St., $11,125 (120 days). Noted June 17.

Fla., Pensacola—Dirigible Hangar—Spec. 4172—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 21, for additional permanent construction, at Naval Air Sta., here, from Pensacola Shipbuilding Co., Blount Bldg., $146,500 (90 days), (2) $60,000, (3) $12,000; Hyde & Baxter, 711 13th St., N. W., Wash., D. C., (1) $176,181 (240 days), (2) deduct $107,240 (90 days), (3) deduct $5,750 (10 days), (4) $1,240 (180 days). Noted June 10.

★**Tex., Ft. Worth**—Gate Boxes—Spec. 4216—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building along line of natural gas pipe line between here and Petrolia, to Echole Bros., 1010½ Main St., $5,257 (40 days). Noted June 17.

Wash., Puget Sound—Auxiliary Equipment and Piping—Spec. 4179—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 23, furnishing and installing for air compressor, here, from Carroll Electric Co., 714 12th St., Wash., D. C., $49,800 (180 days); C. C. Moore & Co., Sheldon Bldg., San Francisco, Cal., $59,861 (240 days). Noted June 17.

★**Cal., Mare Island**—Fence and Gates—Spec. 4197—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building at Naval Hospital, here, to Standard Fence Co., 310 12th St., Oakland, $14,784 (60 days). Noted June 17.

★**Cal., Mare Island**—Paving—Spec. 4209—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract paving various streets, here, to United Constr. Co., Vallejo, $30,365 (80 days). Noted May 27.

Cal., Mare Island—Paving—Spec. 4209—Pub. Wks. Office, received bids June 16, paving various streets, from United Constr. Co., Vallejo, $16,925; Clinton Constr. Co., 140 Townsend St., San Francisco, $20,200.

Miscellaneous

PROPOSED WORK

River Terminals—Nashville, Tenn.—City having plans prepared by Freeland, Roberts & Akers, consult. engrs., 1212 Independent Life Bldg., constructing river terminals, to include piers, warehouses, stockyards, side tracks and roads. About $300,000.

Breakwater—Chicago, Ill.—South Park Comrs., 57th St. and Cottage Grove Ave., plan to build 1 mi. breakwater in Lake Michigan to provide room for approximately 8,000,000 cu.yd. of fill; to be in three sections; off 15th, 35th and 59th Sts. L. White, ch. engr.

Timber, Castings, Steel, etc.—Milwaukee, Wis.—See "Bridges under Contracts Awarded."

Steam Shovel, etc.—Shoshoni, Wyo.—Wyoming Chemical Products Co., Duluth, Minn., plans to purchase 1 small steam shovel, 2 mi. narrow gage railroad and dump cars. W. G. Wey, Shoshoni, engr.

Vaults—Toronton, Ont.—Canadian Bank of Commerce, Yonge St., plans to build 2 story, rein.-con., brick and steel and marble, rein.-con. flooring, concrete foundation on Atlantic Ave. About $100,000. Architect not selected.

Gas System—Wallaceburg, Ont.—Wallaceburg Gas Co., Duncan St., plans to reconstruct natural gas distribution system. About $75,000. Engineer not selected.

BIDS DESIRED

Gate Valves—Boston, Mass.—Until July 8, by city, furnishing twenty 16 in. gate valves.

Bleachers — New Bedford, Mass — Until July 8, by Park Bd., building concrete bleachers at Buttonwood Park. About $25,000. Brown & Poole, New Bedford, engrs.

Bleachers — New Bedford, Mass. — Until July 7, by Park Bd., building concrete bleachers at Victory Park. About $35,000. Brown & Poole, New Bedford, engrs.

Road Materials—St. George, S. I., N. Y. — See "Streets and Roads."

Foundation — Akron, O. — J. Ellerson, archt., 64 East Van Buren St., Chicago, Ill., receiving bids building concrete foundations for 10 story, 133 x 225 ft. hotel and 1 story, 109 x 185 ft. theatre, here, for Akron Prospect Co.

Dock—Milwaukee, Wis.—Rockwell Mfg. Co., 572 Park St., receiving bids for 230 ft. pile and concrete dock, 3 ft. wide, capped piles. F. E. Gray, 86 Michigan St., archt.

Culverts—Toronto, Ont.—Until July 7, by W. A. McLean, deputy minister of highways, Parliament Bldgs., constructing concrete culverts in Edwardsburg Twp., Sect C, (Contr. 93); Oxford Twp., Sect A, (Contr. 94); Marlborough and North Gower Twps., (Contr. 95); North Gower Twp., Sect. A ,(Contr. 96); North Gower and Nepean Twps. (Contr 97), and Nepean Twp., Sect. B, (Contr. 98). About $70,000. G. Hogarth, Parliament Bldgs., engr. Cement and steel supplied by province. Noted May 6, under "Bridges."

Equipment — Vancouver, B. C. — Harbor Comrs. receiving bids for equipment for dredging and filling. W. G. Swan, 712 Pender St., W., engr.

Pier and Transit Sheds—Vancouver, B. C. —Until Aug. 7, by Harbor Comrs., building 350 x 1,200 ft. rein.-con. pier and transit sheds (to be known as Ballantyne Pier), involving 14,200 cu.yd. earth excav., 50,500 cu.yd. earth fill, 56,000 cu.yd. rein.-con., 30,000 cu.yd concrete, 27,000 lin.ft. wood piling, 900 lin.ft. clay pipe, 30 tons steel in girders, 28 tons steel ⅜ in. plate column protectors, 434,000 sq.ft. ⅜ in. asphalt, 750 tons wrought steel, and 380 tons new rails, etc. About $3,000,000. A. D. Swan, 10 Phillips Pl., Montreal, Que., engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Piers—New York, N. Y.**—M. Hulbert, comr. docks, Pier "A," foot of Battery Pl., let contract reconstructing pier and new freight pier at Stanton St., to Lustig & Weil, 103 Park Ave., $117,074. Noted June 10.

★**Subway Subtrack—New York, N. Y.**—J. H. Delaney, comr. transit constr., 49 Lafayette St., let contract completing Sect 2, Route 8, of 14th St.—Eastern Rapid Transit extending under East 14th St. from Irving Pl. to Ave. B, to P. McGovern, 50 East 42nd St., $3,336,000. Noted June 24.

★**Heating Apparatus, etc.—Olean, N. Y.**—City let contract installing heating apparatus in Schools 1, 2, 3, 4 and 7, to Power Efficiency Corp., White Bldg., Buffalo, $148,201; excavating and building cold storage and boiler house in rear of Olean High School, to L. E. Corsett, Olean, $42,347.

★**Sheds—Stapleton, S. I., N. Y.**—M. Hulbert, comr. docks, Pier "A," foot of Battery Pl., New York City, let contract building freight shed at Piers 12 and 13, to Post & McCord, 101 Park Ave., New York City, $1,986,800; 15 and 16, to Snare & Triest, 8 West 40th St., New York City, $2,021,530; 17 and 18, to McHarg-Barton, 171 Madison Ave., New York City, $945,924. Noted June 3.

★**Smokestack—Danville, Va.**—Dan River & Riverside Cotton Mills, let contract building rein.-con. smokestack, 250 ft. high from foundation, 10 ft. diameter at smallest point, to Webber Chimney Co., Chicago.

★**Steel Pipe—Pontiac, Mich.**—City let contract furnishing 5,870 lin.ft. 48 in. lock bar steel for filtration plant, to East Jersey Pipe Corp., 350 21st Ave., Paterson, N. J., $12.65 per ft., total, $74,255.

Street Lighting System — Green Bay, Wis.—City received bid June 8, for ornamental street lighting system, from E. A. Brown & Co., 916 North 6th St., Kansas City, Kan., $38,576. Noted June 3.

★**Slide Gates—San Francisco, Cal.**—Bd. Pub. Wks. let contract furnishing and installing 33 x 42 in. slide gates for Hetch Hetchy Dam (Contr. 67), to Union Machine Co., 934 Brannan St., $170,000 plus $16 per day for foreman's services.